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### THE IMPACT OF PREMIUM TRANSPORTATION ON USMC LOGISTICS PROCESSES

by

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**ABSTRACT** *(maximum 200 words)*

The purpose of this thesis is to use simulation models to evaluate the benefits and costs of premium transportation on inventory levels at I MEF, Camp Pendleton, CA. The core of the research focuses on studying the impact that 100% premium transportation has on Order Ship Time (OST) and requisitioning objective inventory levels at I MEF. Although premium transportation is expensive, the savings in inventory costs provide an opportunity to offset transportation costs, decrease OST, and improve overall customer service. The research results show that the benefits generally outweigh the costs when premium transportation is used for consumable items. Premium resupply from the New Cumberland/Mechanicsburg Depot resulted in significant OST reductions while incurring an additional cost of only $400 per month. Premium resupply from the Sharpe/Tracy Depot is available at no cost because the depot has unused premium transportation capacity readily available. Repairable items, however, do not appear to support the use of premium transportation due to their high weight, and thus high transportation cost.

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# THE IMPACT OF PREMIUM TRANSPORTATION ON USMC LOGISTICS PROCESSES

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iii

# ABSTRACT

The purpose of this thesis is to use simulation models to evaluate the benefits and costs of premium transportation on inventory levels at I MEF, Camp Pendleton, CA. The core of the research focuses on studying the impact that 100% premium transportation has on Order Ship Time (OST) and requisitioning objective inventory levels at I MEF. Although premium transportation is expensive, the savings in inventory costs provide an opportunity to offset transportation costs, decrease OST, and improve overall customer service. The research results show that the benefits generally outweigh the costs when premium transportation is used for consumable items. Premium resupply from the New Cumberland/Mechanicsburg Depot resulted in significant OST reductions while incurring an additional cost of only $400 per month. Premium resupply from the Sharpe/Tracy Depot is available at no cost because the depot has unused premium transportation capacity readily available. Repairable items, however, do not appear to support the use of premium transportation due to their high weight, and thus high transportation cost.

# TABLE OF CONTENTS

# I.    INTRODUCTION

## A.    BACKGROUND

Marine Corps units often face slow logistics response times in meeting their requirements.[1]    Although many Marine Corps logisticians recognize this problem, their efforts to solve it generally conflict with pressure from Congress to reduce costs.

This chapter describes the  development of an idea to use transportation and inventory tradeoffs to simultaneously address logistics response times and costs.

### 1.    Precision Logistics

" 'Precision Logistics' is the art and science of providing the warfighter with the right thing, at the right place, at the right time, with the least amount of effort, signature, and cost" (Hamilton, 1996).    " Precision Logistics"  holds great promise within the Marine Corps, and across all the military services, to enhance logistical support while reducing cost.    It is a concept that acknowledges the need to simultaneously improve logistics processes while reducing costs.  One fundamental method

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[1]  Dr.  Marc  Robbins,  RAND  Corporation,  provided  general information  on  Marine  Corps  logistics  response  times  during several  phone  conversations  in  September,  1997.  Specific information  is  contained  in  an  unpublished  RAND  report  which discusses Marine Corps logistics processes.

to achieve these conflicting goals is through Order Ship Time (OST) reductions.

## 2. Order Ship Time (OST)

The Commandant of the Marine Corps established OST reductions as a key step in improving Marine Corps logistics response times (CMC, DTG 150245ZNOV96). OST is the total time between a customer supply requisition and the receipt of the supply item by the customer (DoD 4140.1-R). One method of addressing OST is the Enhanced Transportation Service program.

## 3. Enhanced Transportation Service (ETS) Program

ETS is a concept developed at Marine Corps Logistics Bases, Albany.[2] ETS uses premium air transportation to move items from Albany, Georgia, to designated locations. All items priority 01-03 are eligible for the program. The program effectively reduces both OST and stockage levels. Although the concept has great potential, it would be cost prohibitive to test its application in a real environment.

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[2] A point paper entitled *MARCORLOGBASES Albany Enhanced Transportation Service*, dated July 11, 1996, discussed the ETS concept. Major Scott Allen and Captain Andy Stokes, both from Marine Corps Logistics Bases (MarCorLogBases) Albany, Georgia, co-authored the paper.

### 4. Cost Benefit Analysis of the Enhanced Transportation Service Program

Prior research entitled *Cost Benefit Analysis of the Enhanced Transportation Service Program* used a simulation model to study the ETS program for resupply between Marine Corps Logistics Bases, Albany, and Marine Corps units in California.[3] It used one year of supply data on 26 repairable items. It concluded that "the cost of premium transportation service is significantly less than the cost of additional inventory that would have to be carried if premium transportation were not utilized. Therefore, further research of the ETS Program is warranted."

### 5. Expand the Study and Eliminate the Limitations

This research begins where the *Cost Benefit Analysis of the Enhanced Transportation Service Program* research stopped. It expands the study to include 52 repairable and 83 consumable items, premium air and surface transportation, three sources of wholesale supply, and the elimination of most of the previous thesis' limitations. An important element of this research is the "priority-less" use of premium transportation. This means

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[3] Captain Mike Attcheson, USMC, conducted research entitled *Cost Benefit Analysis of the Enhanced Transportation Service Program*, dated June, 1997. He briefed various members of Marine Corps Logistics Bases, Albany, on his results and conclusions.

that an item, once selected, moves by premium transportation every time the retail-level supply organization submits a requisition to the wholesale-level supply source. Throughout this thesis, the terms "priority-less" and "premium" will be used interchangeably.

## B.    RESEARCH QUESTIONS

### 1.    Primary

The wide-scale use of premium transportation is relatively expensive, but it provides the opportunity to reduce stockage levels due to the resulting decrease in OST. The primary research question is, "Is it beneficial to selectively use premium transportation to support I MEF at Camp Pendleton?"

### 2.    Subsidiary

The subsidiary research questions target different elements of the primary research question to allow a systematic analysis of the central issues surrounding the use of premium transportation. The subsidiary research questions are,

1) What is the impact of premium air transportation between the Marine Corps Logistics Base at Albany and the Repairable Issue Point at Camp Pendleton?

4

2) What is the impact of premium air transportation between the New Cumberland/Mechanicsburg DLA Depot and the General Account at Camp Pendleton?

3) What is the impact, using the selected items in Question #2, of premium ground transportation between the Sharpe/Tracy DLA Depot and the General Account at Camp Pendleton?

4) Does the application of premium air/ground transportation make it beneficial to shift selected items that are primarily resupplied by the New Cumberland/Mechanicsburg DLA Depot to the Sharpe/Tracy DLA Depot?

5) What guidelines should be used in selecting items to move by premium transportation?

## C.   OUTLINE

Chapter I presents background material to explain the origins of this study in premium transportation.   It also describes the primary and subsidiary research questions.

Chapter II:   Background - Reviews the retail level and wholesale level supply.  Explains this research's intended impact on OST and the use of simulation modeling.

Chapter III:   The General Account - Reviews the requisition objective (RO) model and selection of items for analysis.

Chapter IV:     The Repairable Issue Point – Reviews the requisition objective (RO) model and selection of items for analysis.

Chapter V:      Simulation Methodology – Explains the methodology underlying the simulation models.

Chapter VI:     Simulation Analysis – Explains the assumptions, limitations, and results of the simulation models.

Chapter VII:    Conclusions and Recommendations – Draws conclusions based on the research questions and provides recommendations.

## II.  BACKGROUND

### A.  INTRODUCTION

Inventory and transportation are inextricably linked.  They are each controlled by internal structures and factors, but their dependability and efficiency are ultimately a result of their relationship to each other.

This chapter discusses the inventory and transportation structures and factors relevant to this research.  It also describes simulation modeling, a mathematical tool that can evaluate the interaction of these forces in different situations.

### B.  WHOLESALE LEVEL SUPPLY

Wholesale level supply is organized at the national level. It maintains, repairs, and procures inventory items to satisfy retail level demand (DoD 4140.1-R).

1. **General characteristics of wholesale level supply (NAVSUP Pub 553)**

   a) Inventory levels are computed based on worldwide demand data.

   b) Material is available for unrestricted use by the wholesale item manager.

c) The wholesale item manager knows (theoretically) where all stock is located.

d) Material is under the accountability of the designated inventory control point.

e) Material is " pushed" by the wholesale level to the retail intermediate level.

## C.   RETAIL LEVEL SUPPLY

Retail level supply is organized at DoD intermediate and consumer levels of supply directly below the wholesale level (DoD 4140.1-R).

1.   **General characteristics of retail intermediate level supply (NAVSUP Pub 553)**

a) Requirements are computed based on historical demands arising in a geographical area or from designated activities.

b) Material is " pulled" from the wholesale system.

c) Each transaction concerning an item is reported to the wholesale level.

d) The stock is not usually available to satisfy demands outside the stock point's geographical area of support.

2.   **General characteristics of retail level supply**   **(NAVSUP Pub 553)**

   a) The purpose is to provide direct support associated with readiness goals.

   b) Computations are made to set up inventories via an allowance list.   These allowance lists are established to meet operational readiness goals based on specific unit endurance goals.

   c) Material is issued directly to the maintenance technician.

   d) Inventories are not used to resupply another level of inventory.

   e) The material is used by the activity in performing its function.

## D.   FUNCTIONS OF INVENTORY

Inventory exists to serve four functional factors (NAVSUP Pub 553).   Thus, inventory levels will rise and fall based on changes to these factors.

### 1.   Time Factor

Inventories exist because of the time required to produce and distribute an item to its final customer.

## 2. Decoupling Factor

Inventories exist to allow various operations (manufacturing, distribution, warehousing) to operate in an independent manner that will improve each operations' efficiency.

## 3. Uncertainty Factor

Inventories exist to meet variability both in demand and in resupply.

## 4. Economy Factor

Inventories exist to allow organizations to take advantage of the cost reductions available in economic order quantities, bulk shipments, etc.

## E. ORDER SHIP TIME (OST)

OST is the total time between a customer supply requisition and the receipt of the supply item by the customer (DoD 4140.1-R). The routine use of premium transportation reduces average OST since most requisitions generally do not receive premium transport. This reduction in average OST leads to inventory reductions because it impacts both the time and uncertainty factors of inventory.

## 1.    Reducing the inventory time factor

A reduced average OST means a shorter average lead time demand. Thus, inventory levels can reduce proportional to the reduction in average lead time demand.

## 2.    Reducing the inventory uncertainty factor

The routine use of premium transportation will significantly reduce the uncertainty, or variability, associated with a distribution system that currently uses a host of transportation methods. Thus, premium transportation reduces the inventory levels (safety levels) that are held to counter transportation uncertainy.

## F.    SIMULATION MODELING

Simulation modeling is the use of computer capabilities to try and duplicate the behavior of a real system. It attempts to imitate a real system mathematically, study the resulting operating features, and then draw conclusions and courses of actions for the real system based on the simulation results. This section discusses the key advantages and disadvantages associated with simulation modeling (Production & Operations Management, 1996).

## 1.    Simulation modeling advantages

a) It is relatively straightforward and flexible.

11

b) It can analyze large, complex situations that may be too difficult or expensive to otherwise analyze.

c) It can analyze virtually any probability distribution.

d) It can quickly analyze the impact of decisions over many months or years.

e) It answers " what-if" questions.

f) It does not interfere with the operations of the real system.

g) It can study the interactive effects of different variables and the system's sensitivity to them.

2. **Simulation modeling disadvantages**

a) It can be very expensive in time and money to build a comprehensive model.

b) It does not assist the analyst in deciding what input will yield an optimal solution.

c) Its results are only as good as the conditions and restraints entered by the analyst.

## G.   CONCLUSION

Inventory and transportation are dependent upon each other. Changes to one directly impact the other.   This chapter described the factors influencing inventory and transportation.   It also

described the key advantages and disadvantages of using simulation modeling to study their relationship to each other and to the system as a whole. The next chapter describes Camp Pendleton's General Account and its applicability to this research.

## III. THE GENERAL ACCOUNT

### A.  INTRODUCTION

DoD 4140.1-R (DoD Material Management Regulation) provides DoD policy concerning retail level inventory.  It allows material retention below the wholesale level.  Retail activities may retain materials to support war reserve levels, to satisfy 24 month's worth of excess at anticipated wear out rates, and to support the requisitioning objective.  This research studies the impact of premium transportation on the requisitioning objective and the resulting decrease in inventory costs.

This chapter describes the requisitioning objective in use at Camp Pendleton's General Account.  It also explains the method used to identify which items will be used in this research.

### B.  THE REQUISITIONING OBJECTIVE

The current requisitioning objective used at Camp Pendleton's General Account consists of the following categories:[4]

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[4] Chief Warrant Officer Charles Coon, SASSY Management Unit (SMU), Camp Pendleton, California, outlined the requisitioning objective for the General Account's on-hand inventory of consumable items.

15

## 1.    Minimum Requirements Analysis

Items must meet two conditions before their requisitioning objective can exceed zero.  These conditions are 1) a minimum of three requisitions in three separate months over the last twelve month period, and 2) one of the three requisitions must have occurred in the last four months.

## 2.    Order Ship Time

The average order ship time is represented by the following equation:

$$\text{Average OST} = (\text{COST} / \text{TOY}) \qquad\qquad (3.1)$$

where

OST = Order Ship Time (Days)

COST = Cumulative Order Ship Time (Days)

TOY = Total Orders in Year (Units)

Cumulative Order Ship Time is the total of the individual OSTs for each item ordered during the last twelve months.

Total Orders in Year is the number of items ordered during the last twelve months.

The average OST is rounded to the next highest increment of 5 (e.g., average OST between 1 and 5 is rounded to 5).  An average OST of 45 days will be used when items 1) have an average

16

OST of 0 or, 2) are in their first two years of use or, 3) have fewer than five requisitions in the previous twelve months.

### 3. Safety Level

The safety level is the quantity of items needed to compensate for variability. Items with a Combat Essentiality Code of 5 or 6 use a 30 day safety level. All other items use a 15 day safety level.

### 4. Operating Level

The operating level is the quantity of items needed between replenishment cycles. Operating level time is the time between replenishment orders based on an economic order quantity (Naval Audit Service Report, 1996). All items use a 60 day operating level.

### 5. Combine Requirements

The final requisitioning objective is represented by the following equation:

$$RO = [(Average\ OST + SL + OL)/30\ days]\ X\ AMRD \quad (3.2)$$

where

RO = Requisitioning Objective (Units)

OST = Order Ship Time (Days)

SL = Safety Level (Days)

OL = Operating Level (Days)

AMRD = Average Monthly Recurring Demand (Units/Month)

Average Monthly Recurring Demand is the average of the last twelve monthly demand rates. AMRD is rounded to the next whole number.

## C. SELECTION OF ITEMS FOR ANALYSIS

This research uses 83 consumable items.[5] Shipping data from Camp Pendleton originally identified 12,317 items that East Coast depots generally supported. Further shipping data research concluded that East Coast depots exclusively supplied only 8,158 of these items, while the New Cumberland/Mechanicsburg depot exclusively supported only 951 of these items. Freight files, provided by Camp Pendleton, provided weight and dimensional information on 328 of these remaining items. The final items emerged after comparing the 328 items against the historical data received from the Rand Corporation, Camp Pendleton, and Albany. Only 83 items actually indicated usage in all three data sets.

## D. CONCLUSION

The key to this research is using an accurate requisitioning objective and meaningful data. This chapter described how to

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[5] Major Doug Turlip and Chief Warrant Officer Charles Coon; SMU, Camp Pendleton; ran data queries against Camp Pendleton's demand and shipping records to identify the items described above.

correctly use the requisitioning objective and how to identify
items that support this research.    The next chapter describes
Camp Pendleton's Repairable Issue Point  and its applicability to
this research.

## IV.   THE REPAIRABLE ISSUE POINT

### A.   INTRODUCTION

DoD 4140.1-R (DoD Material Management Regulation) provides DoD policy concerning retail level inventory.  It allows material retention below the wholesale level.  Retail activities may retain materials to support war reserve levels, to satisfy 24 month's worth of excess at anticipated wear out rates, and to support the requisitioning objective. This research studies the impact of premium transportation on the requisitioning objective and the resulting decrease in inventory costs.

This chapter describes the requisitioning objective in use at Camp Pendleton's Repairable Issue Point.  It also explains the method used to identify which items will be used in this research.

### B.   THE REQUISITIONING OBJECTIVE

The current requisitioning objective used at Camp Pendleton's repairable issue point consists of the following categories:[6]

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[6]Lieutenant Colonel Jerry Calleros and Major Doug Turlip; both from the SMU, Camp Pendleton; outlined the current requisitioning objective for the Repairable Issue Point's on-hand inventory of repairable items.

## 1. Minimum Requirements Analysis

There are no minimum requirements for establishing a requisitioning objective quantity.

## 2. Repair Cycle Requirement

The repair cycle requirement is the average monthly number of units being locally repaired. It is represented by the following equation:

$$RCR = (RR \times RCT) / 30 \text{ days} \qquad (4.1)$$

where

RCR = Repair Cycle Requirement (Units)

RR = Repair Rate (Units/Month)

RCT = Repair Cycle Time (Days)

"Repair Rate is the number of an item returned per month (to the RIP) by the supporting maintenance facility, repaired and ready for use" (Naval Audit Service, 1996).

"Repair Cycle Time is the average time in days required to repair an item" (NAS, 1996).

## 3. Order and Shipping Requirement

The order and shipping requirement is the average monthly number of units on order. It is represented by the following equation:

$$OSR = [(MFR-RR) \times OST] / 30 \text{ days} \qquad (4.2)$$

where

OSR = Order and Shipping Requirement (Units)

MFR = Maintenance Failure Rate (Units/Month)

RR = Repair Rate (Units/Month)

OST = Order Ship Time (Days)

" Maintenance Failure Rate is the number of requests RIPs receive per month for replacement repairables (i.e., a unit turns in a broken item and requests a replacement)" (NAS, 1996).

" Order Ship Time is the average time in days it takes the RIP to order and receive replenishment items from the  supply source" (NAS, 1996).

### 4.    Safety Level

The safety level is the number of units needed to compensate for variability.  It is represented by the following equation:

$$SL = RCR + OSR \tag{4.3}$$

where

SL = Safety Level (Units)

RCR = Repair Cycle Requirement (Units)

OSR = Order and Shipping Requirement (Units)

## 5. Combine Requirements

The final requisition objective is the sum of the repair cycle requirement, order and shipping requirement, and the safety level. It is represented by the following equation:

$$RO = RCR + OSR + SL \qquad (4.4)$$

where

RO = Requisitioning Objective (Units)

RCR = Repair Cycle Requirement (Units)

OSR = Order and Shipping Requirement (Units)

SL = Safety Level (Units)

## C. SELECTION OF ITEMS FOR ANALYSIS

This research uses 52 repairable items. The original pool of items began with 156 items carried by Camp Pendleton with a Supply Source Code of MPB (Marine Corps Logistics Bases). This means that Albany, Georgia and Barstow, California typically provide these items to Camp Pendleton. Individual item requisitions which indicate Barstow as the final storage depot will be removed from this analysis in order to isolate the logistical interaction between Camp Pendleton and Albany. Freight files, provided by Camp Pendleton, provided weight and dimensional information on 88 of the original 156 items. The final items emerged after comparing the 88 items against the

historical data received from the Rand Corporation, Camp Pendleton, and Albany. Only 52 items actually indicated usage in all three data sets.

## D. CONCLUSION

The key to this research is using an accurate requisitioning objective and meaningful data. This chapter described how to correctly use the requisitioning objective and how to identify items that support this research. The next chapter presents the General Account and Repairable Issue Point's requisitioning objectives in a spreadsheet format. It also explains how this spreadsheet interacts with the simulation model.

## V.    SIMULATION METHODOLOGY

### A.    INTRODUCTION

This research uses a simulation software program called *Crystal Ball* to study the interaction between premium transportation costs and inventory holding costs. It simulates the future by assigning maintenance failure rates (MFRs), repair cycle times (RCTs), repair rates (RRs), and OSTs based on probability distributions. It defines these distributions by analyzing 18 months of historical rates and times.[7] This chapter discusses the methodology underlying the simulated premium transportation and inventory scenarios.

### B.    ALBANY AND CAMP PENDLETON

#### 1.    Scenario Description

This simulation scenario studies repairable item support from Albany to Camp Pendleton. It assumes that all requisitions for these items receive premium air transportation. The only

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[7] Marc Robbins, RAND, provided data on consumable and repairable OSTs and transit times based on the end-user as the customer. Major Doug Turlip and Chief Warrant Officer Charles Coon, SMU, Camp Pendleton, provided data on consumable OSTs based on the SMU as the customer. Captain Mike Lepson and Mike Carroll, MarCorLogBases, Albany, provided data on ERO-related consumable and repairable MFRs, RCTs, RRs, and OSTs based on the end-user as the customer.

27

segment of OST affected is transit time. The other segments remain unchanged throughout this simulation.

### 2. Item Description

This simulation used 52 repairable items. See Appendix A - Repairable Descriptions. Identifying characteristics of these items include the National Stock Number (NSN), nomenclature, Source of Supply (SoS), price, weight, cube, length, width, and height. The NSN is the primary means used by the Department of Defense to track individual items. The SoS is the organization and location that decides which supply or storage depot will fill an item requisition. SoS is equivalent to the Inventory Control Point (ICP), the Integrated Material Manager (IMM), and the Last Known Holder (LKH).[8] The remaining terms are self-explanatory.

### 3. RO Equation

The RO equation is at the very heart of the simulation scenario. It provides a means to determine how inventory levels change when premium transportation reduces the OST. The RO equation for repairable items is described in Chapter IV. The equation variables include the MFR, RR, RCT, and OST. *Crystal Ball* builds probability distributions based on the historical

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[8] Major Doug Turlip, SMU, Camp Pendleton, described the various depot functions during a series of telephone and email conversations.

values of these variables. The MFR, RR, and RCT distributions are the same for both the ground and premium transportation simulations. The OST distributions are different because the transit time element of the OST is different. *Crystal Ball's* simulated values for these variables is a product of their probability distributions. This section describes these variables as they are used in the simulation. See Appendix A - Repairable RO Equation.

The MFR is represented by the quantity of Equipment Repair Orders (EROs) opened each month for each item. See Appendix A - MFR Data. The MFR used in the RO equation is found by taking the average of twelve consecutive monthly MFRs. The simulations build a probability distribution around seven of these twelve-month average MFRs.

The RR is represented by the quantity of Equipment Repair Orders (EROs) closed each month for each item. See Appendix A - RR Data. The RR used in the RO equation is found by taking the average of twelve consecutive monthly RRs. The simulation builds a probability distribution around seven of these twelve-month average MFRs.

The RCT is represented by the amount of time between opening and closing an ERO for an item. See Appendix A - RCT Data. The

RCT used in the RO equation is found by first taking a specific item, looking at each ERO that closed during the month in question, and adding all the times between opening and closing the EROs. This total time is then divided by the total number of items that closed their EROs during the month. Finally, the average is found of twelve consecutive monthly RCTs. The simulation builds a probability distribution around seven of these twelve-month average RCTs.

The OST is represented by the amount of time between the customer's order and receipt. See Appendix A - OST Data. The OST used in the RO equation for ground transportation is the average OST described above. The OST used in the RO equation for premium transportation assumes that transit time is only one day. The simulation builds a probability distribution around all the individual OSTs recorded for each item in the last 18 months.

## 4. Inventory Holding Costs

Reducing inventory levels can have long-term financial benefits long after the short-term benefits of inventory capital reductions. Some of the long-term benefits include reduced warehouse space, personnel requirements, and utility costs. This simulation strictly looks at the long-term benefits since they

represent continuous and ongoing savings over time. See Appendix A - Inventory Savings.

The *Cost to Order/Hold Study For Intermediate Level Activities,* conducted in June 1988 at MarCorLogBases, attempted to isolate quantifiable factors that determine the long-term financial benefits of inventory reductions. These factors are percentages of the inventory value. For example, a factor of 10% applied against a $100 inventory reduction means that the organization's annual costs will decrease by $10. The study isolated four factors. They are as follows:

*a)* 1.00% - storage costs.

*b)* 1.04% - obsolescence and forecast error costs.

*c)* 9.04% - other inventory holding costs.

*d)* 10.00% - capital investment costs.

The simulation model applies these factors to the inventory reductions that are realized through the use of premium transportation.

## 5. Transportation Costs

Increasing premium transportation has an immediate impact by reducing OSTs. These OST reductions mean lower lead time demand and thus lower inventory levels. However, these benefits come at

a cost. This simulation uses both "ground" less-than-truckload (LTL) rates and "premium" next-day air rates. See Appendix A - Transportation Costs.[9]

## C. NEW CUMBERLAND/MECHANICSBURG AND CAMP PENDLETON

### 1. Scenario Description

This simulation scenario studies consumable item support from New Cumberland/Mechanicsburg to Camp Pendleton. It assumes that all requisitions for these items receive premium air transportation. The only segment of OST effected is transit time. The other segments remain unchanged throughout this simulation.

### 2. Item Description

This simulation used 83 consumable items. See Appendix B - Consumable Descriptions. Identifying characteristics of these items include the National Stock Number (NSN), nomenclature, Combat Essentiality Code (CEC), Source of Supply (SoS), Storage Depot (SD), city (of SD), state (of SD), price, weight, cube, length, width, and height.

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[9] Lee Lumpkin, Transportation Supervisor at MarCorLogBases, provided FedEx rates (<150 lbs) and Emery WorldWide rates (>150 lbs) on September 4, 1997. Bob Shaver, Freight Supervisor at MarCorLogBases, provided LTL rates on November 13, 1997.

### 3. RO Equation

The RO equation is at the very heart of the simulation scenario. It provides a means to determine how inventory levels change when premium transportation reduces the OST. The RO equation for consumable items is described in Chapter III. The equation variables include the Average Monthly Recurring Demand (AMRD) and OST. *Crystal Ball* builds probability distributions based on the historical values of these variables. The AMRD distributions are the same for both the ground and premium transportation simulations. The OST distributions are different because the transit time element of the OST is different. *Crystal Ball*'s simulated values for these variables is a product of their probability distributions. This section describes these variables as they are used in the simulation. See Appendix B - Consumable RO Equation.

The AMRD is represented by the total quantity of items requested each month for each item. See Appendix B - AMRD Data. The AMRD used in the RO equation is found by taking the average of twelve consecutive monthly AMRDs. The simulations build a probability distribution around seven of these twelve-month average AMRDs.

The OST is represented by the amount of time between the customer's order and receipt. See Appendix B - OST Data. The OST used in the RO equation for ground transportation is the average OST described above. The OST used in the RO equation for premium transportation assumes that transit time is only one day. The simulation builds a probability distribution around all the individual OSTs recorded for each item in the last 18 months.

### 4. Inventory Holding Costs

This material is discussed in detail in the Albany to Camp Pendleton " Inventory Holding Costs" section. The information is equally applicable to both simulations. Specific information concerning this simulation is located in Appendix B - Inventory Savings.

### 5. Transportation Costs

Increasing premium transportation has an immediate impact by reducing OSTs. These OST reductions mean lower lead time demand and thus lower inventory levels. The reduced inventories, in turn, mean lower storage costs. These benefits, however, come at the cost of increased transportation fees. This simulation uses both " ground" less-than-truckload (LTL) rates and " premium"

next-day air rates in the analysis of these fees. See Appendix B – Transportation Costs.[10]

## D.    SHARPE/TRACY AND CAMP PENDLETON

### 1.    Scenario Description

This simulation scenario studies the *shift* of consumable item support, needed by Camp Pendleton, from New Cumberland/Mechanicsburg to Sharpe/Tracy. It assumes that all requisitions for these items utilize Sharpe/Tracy's current same-day, three-deliveries-a-week premium ground transportation service to Camp Pendleton. The only segment of OST effected is transit time. The other segments remain unchanged throughout this simulation.

### 2.    Item Description

This simulation used 83 consumable items. See Appendix C – Consumable Descriptions. Identifying characteristics of these items include the National Stock Number (NSN), nomenclature, Combat Essentiality Code (CEC), Source of Supply (SoS), Storage

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[10] Lee Lumpkin, Transportation Supervisor at MarCorLogBases, provided FedEx rates (<150 lbs) and Emery WorldWide rates (>150 lbs) on September 4, 1997. Patricia Kuntz, Transportation Supervisor at the Defense Distribution Depot, New Cumberland, provided LTL rates on November 13, 1997.

Depot (SD), city (of SD), state (of SD), price, weight, cube, length, width, and height.

### 3. RO Equation

The RO equation is at the very heart of the simulation scenario. It provides a means to determine how inventory levels change when premium transportation reduces the OST. The RO equation for consumable items is described in Chapter III. The equation variables include the Average Monthly Recurring Demand (AMRD) and OST. *Crystal Ball* builds probability distributions based on the historical values of these variables. The AMRD distributions are the same for both the ground and premium transportation simulations. The OST distributions are different because the transit time element of the OST is different. *Crystal Ball*'s simulated values for these variables is a product of their probability distributions. This section describes these variables as they are used in the simulation. See Appendix C - Consumable RO Equation.

The AMRD is represented by the total quantity of items requested each month for each item. See Appendix C - AMRD Data. The AMRD used in the RO equation is found by taking the average of twelve consecutive monthly AMRDs. The simulations build a

probability distribution around seven of these twelve-month average AMRDs.

The OST is represented by the amount of time between the customer's order and receipt. See Appendix C - OST Data. The OST used in the RO equation for ground transportation is the average OST described above. The OST used in the RO equation for premium transportation assumes that transit time is only one day. The simulation builds a probability distribution around all the individual OSTs recorded for each item in the last 18 months.

### 4. Inventory Holding Costs

This material is discussed in detail in the Albany to Camp Pendleton "Inventory Holding Costs" section. The information is equally applicable to both simulations. Specific information concerning this simulation is located in Appendix C - Inventory Savings.

### 5. Transportation Costs

Increasing premium transportation has an immediate impact by reducing OSTs. These OST reductions mean lower lead time demand and thus lower inventory levels. However, these benefits usually come at a cost.

Sharpe/Tracy is currently delivering items to Camp Pendleton using a same-day, three-deliveries-a-week service at no cost to

37

the Marine Corps. Darlene Granados, Transportation Supervisor at the Defense Distribution Depot, Sharpe/Tracy, provided historical data and usage rates on the delivery service on September 23, 1997. This service, funded by the Defense Logistics Agency (DLA), provides three deliveries to Camp Pendleton a week. The delivery vehicle varies between 40', 45', and 52' trucks. DLA will provide this service at no cost to the Marine Corps as long as the vehicles, on average, utilize a minimum of 50% of their weight or cubic capacity. The current service is operating at approximately 49% capacity. Darlene Granados stated that DLA is willing to increase this service to five-days-a-week, but only if the vehicles can be filled to 50% capacity or more.

This simulation focuses on the available capacity in the current three-deliveries-a-week service. The simulation studies the impact of repositioning the consumable items and, consequently, shifting from New Cumberland/Mechanicsburg " ground" LTL rates to the Sharpe/Tracy premium service. See Appendix C - Transportation Costs.

E.    CONCLUSION

This chapter explained the methodology underlying the simulated premium transportation support from the New Cumberland/Mechanicsburg depot, the Sharpe/Tracy depot, and

the Marine Corps Logistics Bases, Albany. The simulation models used in this research are an inexpensive, risk-free method of studying the interaction between premium transportation costs and inventory holding costs. These models are conservative in their assumptions and overall design. As a result, their output will tend toward higher transportation costs, lower inventory savings, and an unfavorable tradeoff value. Although these tendencies are minimal, they exist and should be considered when reviewing the models' outputs. The key to eliminating these tendencies is increasing the amount and accuracy of the data used within the models. The next chapter will discuss the assumptions, limitations, and results of the simulation models.

# VI. SIMULATION ANALYSIS

## A. INTRODUCTION

A simulation model is limited in its ability to imitate the tremendous variety of factors that influence how an actual system functions. This section discusses the key assumptions and limitations that form the foundation of this research's simulation models and their applicability to the actual Marine Corps' logistics process. It also describes the simulation models' results.

## B. ASSUMPTIONS

There are a variety of assumptions made throughout this research due to inadequate data, time constraints, or *Crystal Ball* data requirements. These assumptions include:

1) The requisitioning objectives' safety level factors remain constant during the use of premium transportation.

2) The 1988 inventory holding cost factors reflect actual costs of holding inventory at Camp Pendleton.

3) The " washout rate" (MFR-RR) and the AMRD represent the total wholesale shipping requirement for the items in this analysis.

**4)** Each consumable item is shipped to Camp Pendleton in two shipments each month. Historical data indicated that the storage depot ships items multiple times, in different quantities, and at different times each month. This research's simulation models do not have the analytical depth to simulate daily shipping patterns.

**5)** None of the items require outsized cargo transportation rates.

**6)** DLA pays all ground shipping costs, while the Marine Corps pays the difference between premium and ground shipping costs. DLA currently pays all shipping costs, only using premium transportation to meet high priority requisitions that DLA believes require premium transportation. This assumption effectively saves DLA money by enabling it to always pay ground shipping rates.

**7)** The following repairable item data represents the entire transaction history of the items during the last 18 months:

      a) ERO open and close dates, provided by Albany.

      b) Item order and receipt dates, provided by Rand.

      c) Item ground transit times, provided by Rand.

**8)** The following consumable item data represents the entire transaction history of the items during the last 18 months:

a) Item order and receipt dates, provided by I MEF.

b) Item ground transit times, provided by Rand.

## C. LIMITATIONS

The simulation models have a variety of limitations, many of which are linked to the above assumptions. These limitation include:

**1)** Only 18 months of data was used because " Precision Logistics" initiatives designed to decrease OST began at that time at Camp Pendleton. Data prior to this period would not reflect the the impact of these initiatives on OST.

**2)** Using 52 repairable and 83 consumable items does not provide a truly representative sample of Camp Pendleton's inventories. Data and computer constraints limited the analysis to these quantities.

**3)** The simulation models do not analyze safety levels. The use of premium transportation dramatically reduces the variability connected with current transportation times. This reduction in variability implies the requisitioning objectives can utilize smaller safety levels.

**4)** The *Cost to Order/Hold Study For Intermediate Level Activities,* conducted in 1988 at MarCorLogBases, provides

questionable inventory holding cost factors because of the study's age.

**5)** The consumable items use AMRDs that only account for supply replenishment actions initiated at the SMU level. The AMRDs do not account for requisitions that originate below the SMU and are simply passed to the wholesale level for action.

**6)** There was no data available concerning which specific items were shipped together from the same storage depots. Although the simulation models shipped repairable items individually and consumable items in two batched shipments each month, this method is only an approximation of the transportation cost savings associated with shipping larger batches at reduced rates.

**7)** Repairable Data

a) The repairable order and receipt dates, provided by Rand, represent the dates the using unit actually ordered and receipted for the item. The requisitioning objectives in use at the SMU use the dates the SMU ordered and receipted for the item. This difference can be a day, a week, or more at each end of OST.

b) The repairable ground transit times, provided by Rand, represent the dates the storage depot shipped the item until the using unit receipted for it. Again, the SMU's

requisitioning objectives use the SMU's receipt date. This possibly adds several days to the OST.

c) The most critical element of the SMU and using unit date differences is the increase in OST variability. The simulation models cannot isolate and remove the variability specifically associated with the using unit and SMU interactions.

8) Consumable Data

a) The consumable ground transit times, provided by Rand, represent the dates the storage depot shipped the item until the using unit receipted for it. Since the SMU's requisitioning objectives use the SMU's receipt date, this possibly adds several days to the OST. The simulation models cannot isolate and remove the variability associated with the using unit and SMU's different receipt dates.

## D. RESULTS

The simulation results indicate the probabilities of attaining certain monthly inventory/transportation tradeoff values. The mean tradeoff value is the average of all the tradeoff values based on the number of iterations run by the simulation model. The mean tradeoff value represents the average monthly gain or loss to I MEF if it uses premium transportation to resupply the items studied in this research. The gain

45

percentage is the probability that the monthly tradeoff value
will equal or exceed zero. The gain percentage represents the
percentage of time that I MEF will experience a monthly gain
while using premium transportation to resupply the items studied
in this research.

## 1. Albany to Camp Pendleton

Figure 1 shows that premium transportation for the 52
repairable items used in this research yields a mean tradeoff
value of -$2,527.81, i.e., on average, I MEF would lose this much
money each month the program is used.



Figure 1. Albany to Camp Pendleton
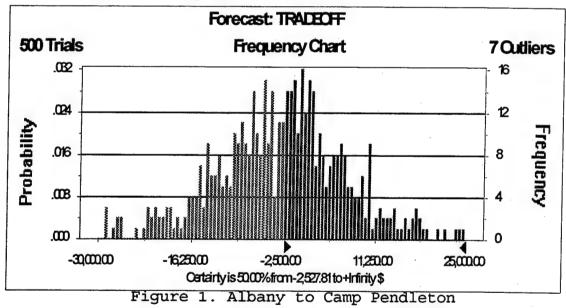
Figure 2 shows that premium transportation between Albany and
Camp Pendleton, for the 52 repairable items used in this research,
yields a gain percentage of 37.40%, i.e., I MEF would not lose
money in about one third of the months the program is used.

46
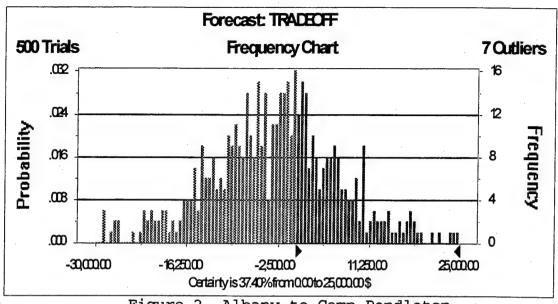
Figure 2. Albany to Camp Pendleton

## 2. New Cumberland/Mechanicsburg to Camp Pendleton

Figure 3 shows that premium transportation for the 83 consumable items used in this research yields a mean tradeoff value of -$404.46, i.e., on average, I MEF would lose this much money each month the program is used.
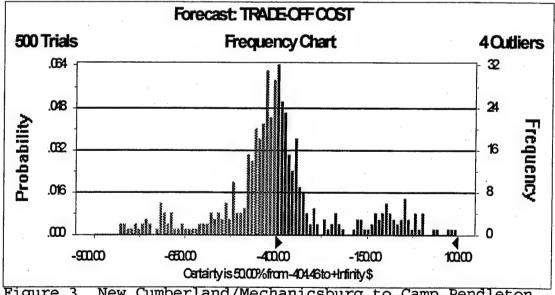


Figure 3. New Cumberland/Mechanicsburg to Camp Pendleton

47

Figure 4 shows that premium transportation between New Cumberland/Mechanicsburg and Camp Pendleton, for the 83 consumable items used in this research, yields a gain percentage of 2.60%, i.e., I MEF would not lose money about one month in every four years the program is used.
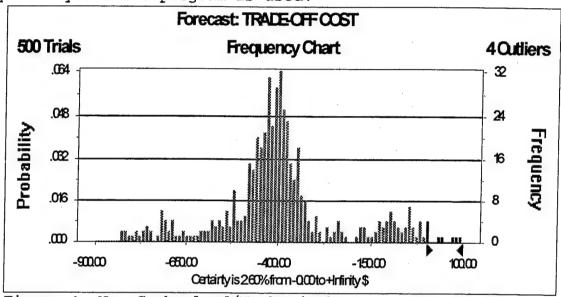


Figure 4. New Cumberland/Mechanicsburg to Camp Pendleton

## 3. Sharpe/Tracy to Camp Pendleton

Figure 5 shows that premium transportation for the 83 consumable items used in this research yields a mean tradeoff value of $161.82, i.e., on average, I MEF would gain this much money each month the program is used.

Figure 6 shows that premium transportation between Sharpe/Tracy and Camp Pendleton, for the 83 consumable items used in this research, yields a gain percentage of 90.60%, i.e., I MEF would not lose money over 90% of the time the program is used.

48

## Forecast: TRADE-OFF COST

**500 Trials** — **Frequency Chart** — **0 Outliers**

Probability / Frequency

Certainty is 50.00% from 161.82 to +Infinity $
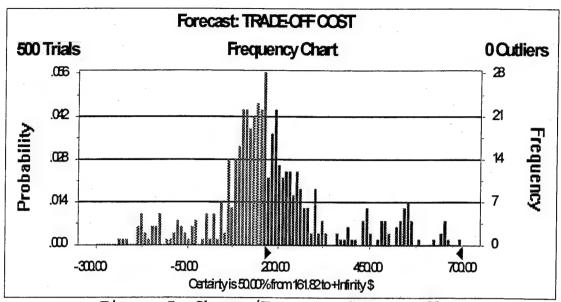
Figure 5. Sharpe/Tracy to Camp Pendleton

## Forecast: TRADE-OFF COST

**500 Trials** — **Frequency Chart** — **0 Outliers**

Probability / Frequency

Certainty is 90.60% from 0.00 to +Infinity $
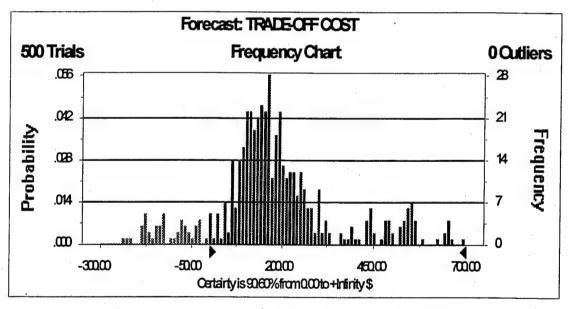
Figure 6. Sharpe/Tracy to Camp Pendleton

## E.   CONCLUSION

These simulation models have many assumptions and limitations because they simulate the interaction between a large retail supply organization and multiple wholesale supply

49

organizations. Although these assumptions and limitations establish a foundation for information that may be vague or open to individual interpretation, analysis of the results from the simulation models yields several important conclusions and recommendations presented in the next chapter.

## VII. CONCLUSIONS AND RECOMMENDATIONS

### A.    INTRODUCTION

This research covered a wide spectrum of issues concerning inventory, transportation, retail demand, and wholesale supply. This chapter discusses these issues by  drawing conclusions based on the research questions and providing recommendations.

### B.    CONCLUSIONS

It is important to reemphasize that the term " premium" transportation in this thesis means the " priority-less" use of premium transportation.  This means that an item, once selected, moves by premium transportation every time the retail-level supply organization submits a requisition to the wholesale-level supply source. It is also important to recognize that the simulation results in this thesis represent only one point on the cost tradeoff probability distribution for each simulation.  The key is looking at the overall distributions for meaning, not at any one specific value.

**1.    It is beneficial to selectively use premium transportation to support I MEF at Camp Pendleton.**

The simulation analysis revealed that premium resupply of consumable items can yield significant benefits in reduced OSTs, '

51

inventory levels, and total costs.  One example is the use of premium transportation to significantly reduce New Cumberland/Mechanicsburg's OSTs while incurring an additional average cost of only $400 per month. Another example is Sharpe/Tracy's unused premium transportation capacity which is available at no cost to I MEF.  Repairable item resupply does not appear to support the use of premium transportation because of the high weight, and thus high transportation cost, of many repairable items.

2.  **Premium air transportation between MarCorLogBases at Albany and Camp Pendleton, for the operational resupply of repairable items, results in significant additional costs that are not justified by the reduced OSTs and inventory levels.**

Premium transportation of 52 repairable items yielded a monthly mean tradeoff value of -$2,527.81, while reaching a positive gain 37% of the time.   Premium transportation is therefore not recommended in this scenario.   See Appendix A – Repairable Tradeoff.

3.  **Premium air transportation between New Cumberland/Mechanicsburg and Camp Pendleton, for the operational resupply of consumable items that are so mission critical that they warrant an additional command-specified expense, is justified by the reduced OSTs and inventory levels.**

This expense can be estimated using this thesis' simulation model so the commander can weigh mission concerns against

budgetary impact before making a decision. Premium transportation of 83 consumable items yielded a monthly mean tradeoff value of -$404.46, while reaching a positive gain 3% of the time. Premium transportation is therefore recommended in this scenario. See Appendix B - Consumable Tradeoff.

   4.   **Premium ground transportation between Sharpe/Tracy and Camp Pendleton, for the operational resupply of consumable items that are located in a depot that uses dedicated trucking with excess capacity for resupply, is justified by the reduced OSTs and inventory levels.**

Premium transportation of 83 consumable items yielded a monthly mean tradeoff value of $161.82, while reaching a positive gain 91% of the time. Premium transportation is therefore recommended in this scenario. See Appendix C - Consumable Tradeoff.

   5.   **It is beneficial to shift selected items that are primarily resupplied by New Cumberland/Mechanicsburg to Sharpe/Tracy.**

However, this simulation analysis only touched on a few of the many factors that need consideration before taking action. Other factors include the location of the consumable items' suppliers, the costs to ship from the supplier locations to Sharpe/Tracy, and the economic and political impact of using different suppliers that are closer to Sharpe/Tracy.

53

**6.  Only certain types of consumable items are compatible with the use of a premium transportation service.**

These types include consumable items that 1) are so mission critical that they warrant an additional command-specified expense, or 2) are located in depots that use dedicated trucking with excess capacity for resupply.

**7.  Historical requisition data from the Rand Corporation, I MEF, and MarCorLogBases varies significantly.**

Given a specific item over a specific period of time, these organizations' databases yield different order and receipt dates, different quantities ordered, and different total orders placed. This means that different organizations at the retail and wholesale supply levels get different answers when they ask the same logistical questions.

**8.  Retail and wholesale level supply organizations do not use the same terminology when discussing issues that directly impact the other.**

One example of this is the wholesale level use of SoS to mean the storage depot, while the retail level uses SoS to mean the inventory control point.  This inconsistency is important because these organizations freely use the term SoS when they discuss, analyze, and produce reports on logistics processes. For example, a transit time report that lists SoS (when it means the storage depot) will represent true transit times, while the

54

same report that lists SoS (when it means the inventory control point) will create the illusion that only one or two depots ship the item and that they have far more transit time variability than they actually do.

9. **Wholesale level supply organizations often focus on the segments of OST that they cannot directly influence and change.**

Wholesale level data tended to use using unit order and receipt dates, with little focus on the point in time when the item actually enters and leaves the wholesale system. This point in time generally occurs at the SMU for Camp Pendleton, except when storage depots fill requisitions by shipping directly to the using unit. The wholesale level should focus on the OST time from the SMU's order date to the SMU's receipt date. I MEF should focus on the internal retail issues that exist below the SMU's level.

## C. RECOMMENDATIONS

The simulation models' results must be studied with the understanding that multiple organizations provided data that occasionally contradicted itself. The recommendations target the data sources and their degree of data reliability.

1.  **Rerun the simulation models in this thesis using SMU order, depot ship, and SMU receipt dates that the SMU provides from its databases.**

This approach will eliminate many of the core assumptions and limitations of this research's models. This approach could also be applied to numerous studies between various depots involving both consumable and repairable items.

2.  **Conduct a detailed analysis of the issues involved in moving items from New Cumberland/Mechanicsburg to Sharpe/Tracy.**

Only further research concerning issues such as the location of the consumable items' suppliers, the costs to ship from the supplier locations to Sharpe/Tracy, and the economic and political impact of using different suppliers that are closer to Sharpe/Tracy will provide a definitive answer concerning the benefits of such a move.

3.  **Cross-reference the history of a collection of requisitions against the Rand, I MEF, and MarCorLogBases databases to determine the degree of data consistency.**

This analysis will then allow a focused investigation of the data retrieval, transfer, and storage methods of these organizations to determine why the data are not the same.

4.  **Ensure that retail and wholesale level supply organizations explain exactly what they mean when exchanging time segment dates and depot names in regards to OST.**

Conducting research or checking on the status of current requisitions, based on OST information tranferred between the retail and wholesale levels of supply, yields few meaningful results if the information is not interpreted correctly.

5.  **Focus wholesale level supply organizations on the segments of OST that they can directly influence and change.**

The OST time segment most relevant to the wholesale level begins with the SMU's order date and ends with the SMU's receipt date.

D.  **SUMMARY**

Retail and wholesale level supply must function as an integrated unit to provide optimal logistics response times to the using units--the Marine Corps warfighters. This research identified two ways to improve this support.

One way to improve this support is to use premium transportation to reduce OST and inventory. This is applicable for consumable items that 1) are so mission critical that they warrant an additional command-specified expense, or 2) are located in depots that use dedicated trucking with excess

57

capacity for resupply. A second way is to focus on inconsistencies that exist between the two levels of supply. These inconsistencies include database management, terminology usage, and OST focus.

# LIST OF REFERENCES

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MSG FM CMC WASHINGTON DC//L// DTG 150245Z NOV 96, *Precision Logistics: Reducing Order Ship Time (OST)*.

Naval Audit Service, Draft Audit Report 95-0054, *Inventory Requirements at Marine Corps Repairable Issue Points*, May 22, 1996.

## APPENDIX A - REPAIRABLE DESCRIPTIONS

| ITEM NO | NSN | NOMENCLATURE | SOS | PRICE ($) | WEIGHT (LBS) | CUBE (FT) | LENGTH (IN) | WIDTH (IN) | HEIGHT (IN) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1005011643558 | RECEIVER,C | MPB | 37.26 | 7.0000 | 0.0260 | 5 | 3 | 3 |
| 2 | 1005012148884 | RECEIVER,C | MPB | 600.00 | 1.0000 | 0.0625 | 9 | 4 | 3 |
| 3 | 1010012579961 | WEAPON CON | MPB | 2659.38 | 3.3800 | 0.7200 | 1 | 1 | 1 |
| 4 | 1010012579962 | TURRET POW | MPB | 2388.17 | 2.5000 | 0.3100 | 1 | 1 | 1 |
| 5 | 1010012589660 | RELAY UNIT | MPB | 4516.31 | 16.0000 | 0.4750 | 1 | 1 | 1 |
| 6 | 1010012589661 | TRAVERSE M | MPB | 10925.00 | 0.8900 | 0.2100 | 1 | 1 | 1 |
| 7 | 1015011656212 | TUBE ASSEM | MPB | 2787.63 | 31.0000 | 1.9000 | 1 | 1 | 1 |
| 8 | 1240010380531 | TELESCOPE, | MPB | 8191.00 | 24.0000 | 2.5556 | 23 | 16 | 12 |
| 9 | 1240010397273 | MOUNT,TELE | MPB | 7324.00 | 108.7500 | 5.8438 | 33 | 18 | 17 |
| 10 | 1240012018299 | MOUNT,TELE | MPB | 1013.00 | 0.8300 | 0.4500 | 1 | 1 | 1 |
| 11 | 1260012362158 | LASER DESI | MPB | 51139.00 | 22.0000 | 1.8750 | 60 | 9 | 6 |
| 12 | 1290010377289 | QUADRANT,F | MPB | 2702.00 | 10.7500 | 0.4010 | 11 | 9 | 7 |
| 13 | 1430010403750 | CONTROL,SI | MPB | 2539.00 | 2.2500 | 0.1250 | 6 | 3 | 12 |
| 14 | 1440012156014 | SIGHT,OPTI | MPB | 19186.00 | 72.5000 | 6.4653 | 28 | 19 | 21 |
| 15 | 2350011996319 | PANEL,INST | MPB | 4263.80 | 21.0000 | 1.2200 | 1 | 1 | 1 |
| 16 | 2510219083070 | STRUT ASSE | MPB | 8365.69 | 0.0000 | 0.0000 | 1 | 1 | 1 |
| 17 | 2520000893773 | COMBINATIO | MPB | 5246.00 | 1000.0000 | 36.6667 | 44 | 40 | 36 |
| 18 | 2520004507502 | SHAFT ASSE | MPB | 415.41 | 390.0000 | 16.0000 | 1 | 1 | 1 |
| 19 | 2520011173010 | TRANSMISSI | MPB | 13163.00 | 1020.0000 | 35.6250 | 57 | 30 | 36 |
| 20 | 2520011343891 | TRANSMISSI | MPB | 33424.96 | 2875.0000 | 120.5000 | 1 | 1 | 1 |
| 21 | 2520011441528 | TRANSFER A | MPB | 7603.00 | 1101.0000 | 35.6481 | 44 | 40 | 35 |
| 22 | 2520011448667 | TRANSMISSI | MPB | 13049.17 | 430.0000 | 11.3889 | 41 | 24 | 20 |
| 23 | 2520011787149 | TRANSMISSI | MPB | 14719.99 | 950.0000 | 11.0000 | 1 | 1 | 1 |
| 24 | 2530004385150 | SUPPORT AS | MPB | 6175.13 | 340.0000 | 24.3000 | 1 | 1 | 1 |
| 25 | 2530004385156 | SUPPORT AS | MPB | 5835.01 | 340.0000 | 24.3000 | 1 | 1 | 1 |
| 26 | 2530011418617 | HYDROSTATI | MPB | 40403.95 | 34.0000 | 19.0000 | 1 | 1 | 1 |
| 27 | 2530012014816 | WHEEL,SOLI | MPB | 439.00 | 8.0000 | 0.1390 | 1 | 1 | 1 |
| 28 | 2815001780268 | ENGINE,DIE | MPB | 13833.00 | 4370.0000 | 117.1042 | 73 | 44 | 63 |
| 29 | 2815011357475 | TURBOCHARG | MPB | 1005.52 | 57.0000 | 4.2700 | 1 | 1 | 1 |
| 30 | 2815011408799 | ENGINE AND | MPB | 52902.10 | 3604.0000 | 154.0000 | 64 | 66 | 63 |
| 31 | 2815011650478 | ENGINE,DIE | MPB | 36324.92 | 2500.0000 | 95.0000 | 1 | 1 | 1 |
| 32 | 2815011867251 | ENGINE,DIE | MPB | 28091.63 | 3109.0000 | 32.5000 | 1 | 1 | 1 |
| 33 | 2990001184942 | POWER TAKE | MPB | 33129.91 | 370.0000 | 2.0000 | 1 | 1 | 1 |
| 34 | 5820008920622 | RECEIVER-T | MPB | 7840.00 | 76.1300 | 1.8333 | 18 | 16 | 11 |
| 35 | 5820009303725 | RECEIVER-T | MPB | 2122.00 | 13.0000 | 0.3333 | 12 | 4 | 12 |
| 36 | 5820010692638 | RECEIVER-T | MPB | 15464.34 | 0.1000 | 0.0006 | 1 | 1 | 1 |
| 37 | 5820012705099 | RECEIVER-T | MPB | 23246.06 | 13.0000 | 0.0000 | 1 | 1 | 1 |
| 38 | 5820012868792 | RECEIVER-T | MPB | 9833.06 | 13.0000 | 0.0000 | 1 | 1 | 1 |
| 39 | 5820013652725 | RECEIVER-T | MPB | 6838.00 | 0.0000 | 0.0000 | 1 | 1 | 1 |
| 40 | 5830011385787 | CONTROL,IN | MPB | 645.10 | 4.0000 | 0.1000 | 1 | 1 | 1 |
| 41 | 5895010655044 | AMPLIFIER, | MPB | 5563.34 | 4.0000 | 0.3125 | 18 | 10 | 3 |
| 42 | 5895013343164 | AMPLIFIER, | MPB | 1876.00 | 37.0000 | 3.0770 | 1 | 1 | 1 |
| 43 | 5895013393686 | EM DIGITAL | MPB | 30937.97 | 0.0000 | 0.0000 | 1 | 1 | 1 |
| 44 | 5985010504869 | COUPLER,AN | MPB | 4991.88 | 41.0000 | 0.9375 | 15 | 12 | 9 |
| 45 | 5996011863699 | AMPLIFIER, | MPB | 46513.07 | 55.0000 | 1.0625 | 17 | 12 | 9 |

61

| 46 | 5998012545859 | CIRCUIT CA | MPB | 12931.62 | 0.3000 | 0.0000 | 1 | 1 | 1 |
| 47 | 5998012602527 | CIRCUIT CA | MPB | 3485.06 | 0.2000 | 0.0000 | 1 | 1 | 1 |
| 48 | 5998013581187 | CIRCUIT CA | MPB | 3704.36 | 0.3000 | 0.0000 | 1 | 1 | 1 |
| 49 | 5999010659011 | CIRCUIT CA | MPB | 4221.94 | 0.1000 | 0.0006 | 1 | 1 | 1 |
| 50 | 5999010661352 | CIRCUIT CA | MPB | 2027.90 | 0.1000 | 0.0000 | 1 | 1 | 1 |
| 51 | 5999012401249 | CIRCUIT CA | MPB | 630.00 | 4.0000 | 0.2500 | 1 | 1 | 1 |
| 52 | 6150011029170 | CABLE ASSE | MPB | 2846.00 | 8.0000 | 0.9103 | 11 | 11 | 13 |

# APPENDIX A - REPAIRABLE RO EQUATION

GROUND SIMULATION

RCR = (RR X RCT) / 30 days    OSR = [(MFR - RR) X OST] / 30 days    SL = RCR + OSR    RO = RCR + OSR +SL

| ITEM NO | NSN | RR | RCT | RCR | MFR | RR | OST | OSR | SL | RO |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1005011643558 | 47 | 38 | 60 | 50 | 47 | 34 | 3 | 63 | 127 |
| 2 | 1005012148884 | 13 | 27 | 12 | 15 | 13 | 24 | 2 | 13 | 27 |
| 3 | 1010012579961 | 6 | 41 | 8 | 5 | 6 | 75 | 0 | 8 | 17 |
| 4 | 1010012579962 | 4 | 31 | 4 | 4 | 4 | 20 | 0 | 4 | 9 |
| 5 | 1010012589660 | 4 | 29 | 4 | 4 | 4 | 19 | 0 | 4 | 8 |
| 6 | 1010012589661 | 4 | 53 | 7 | 4 | 4 | 272 | 0 | 7 | 14 |
| 7 | 1015011656212 | 7 | 36 | 8 | 7 | 7 | 25 | 1 | 8 | 17 |
| 8 | 1240010380531 | 15 | 29 | 14 | 15 | 15 | 23 | 0 | 14 | 29 |
| 9 | 1240010397273 | 7 | 38 | 9 | 8 | 7 | 50 | 0 | 10 | 20 |
| 10 | 1240012018299 | 23 | 35 | 28 | 24 | 23 | 27 | 1 | 29 | 58 |
| 11 | 1260012362158 | 6 | 39 | 8 | 6 | 6 | 298 | 0 | 8 | 16 |
| 12 | 1290010377289 | 4 | 41 | 6 | 4 | 4 | 17 | 0 | 6 | 12 |
| 13 | 1430010403750 | 6 | 36 | 7 | 6 | 6 | 50 | 0 | 7 | 15 |
| 14 | 1440012156014 | 7 | 26 | 6 | 7 | 7 | 223 | 1 | 7 | 15 |
| 15 | 2350011996319 | 13 | 33 | 15 | 14 | 13 | 16 | 0 | 15 | 30 |
| 16 | 2510219083070 | 2 | 30 | 2 | 1 | 2 | 24 | 0 | 2 | 4 |
| 17 | 2520000893773 | 7 | 63 | 14 | 7 | 7 | 179 | 1 | 16 | 32 |
| 18 | 2520004507502 | 8 | 35 | 10 | 8 | 8 | 47 | 0 | 10 | 20 |
| 19 | 2520011173010 | 13 | 56 | 24 | 13 | 13 | 52 | 0 | 24 | 49 |
| 20 | 2520011343891 | 5 | 58 | 10 | 6 | 5 | 100 | 2 | 12 | 25 |
| 21 | 2520011441528 | 8 | 48 | 12 | 7 | 8 | 20 | 0 | 12 | 25 |
| 22 | 2520011448667 | 3 | 37 | 3 | 3 | 3 | 21 | 0 | 3 | 7 |
| 23 | 2520011787149 | 3 | 70 | 8 | 3 | 3 | 21 | 0 | 8 | 16 |
| 24 | 2530004385150 | 2 | 23 | 1 | 2 | 2 | 162 | 1 | 3 | 6 |
| 25 | 2530004385156 | 2 | 25 | 1 | 3 | 2 | 187 | 6 | 7 | 15 |
| 26 | 2530011418617 | 3 | 38 | 4 | 4 | 3 | 88 | 1 | 5 | 11 |
| 27 | 2530012014816 | 7 | 59 | 14 | 8 | 7 | 21 | 1 | 14 | 29 |
| 28 | 2815001780268 | 6 | 77 | 14 | 6 | 6 | 28 | 0 | 15 | 30 |
| 29 | 2815011357475 | 10 | 37 | 12 | 10 | 10 | 20 | 0 | 12 | 25 |
| 30 | 2815011408799 | 15 | 86 | 42 | 16 | 15 | 36 | 1 | 43 | 86 |
| 31 | 2815011650478 | 6 | 71 | 15 | 6 | 6 | 117 | 1 | 16 | 32 |
| 32 | 2815011867251 | 6 | 92 | 20 | 7 | 6 | 40 | 1 | 21 | 42 |
| 33 | 2990001184942 | 3 | 48 | 5 | 3 | 3 | 15 | 0 | 5 | 10 |
| 34 | 5820008920622 | 39 | 34 | 44 | 38 | 39 | 109 | 0 | 44 | 88 |
| 35 | 5820009303725 | 68 | 33 | 75 | 63 | 68 | 28 | 0 | 75 | 151 |
| 36 | 5820010692638 | 50 | 25 | 43 | 51 | 50 | 27 | 0 | 43 | 87 |
| 37 | 5820012705099 | 12 | 27 | 10 | 12 | 12 | 23 | 0 | 11 | 22 |
| 38 | 5820012868792 | 16 | 40 | 22 | 17 | 16 | 32 | 0 | 22 | 45 |
| 39 | 5820013652725 | 109 | 17 | 60 | 111 | 109 | 148 | 9 | 69 | 138 |
| 40 | 5830011385787 | 56 | 14 | 27 | 56 | 56 | 23 | 0 | 27 | 54 |
| 41 | 5895010655044 | 21 | 24 | 17 | 22 | 21 | 26 | 1 | 18 | 37 |
| 42 | 5895013343164 | 18 | 34 | 21 | 18 | 18 | 41 | 0 | 21 | 42 |
| 43 | 5895013393686 | 21 | 17 | 12 | 21 | 21 | 46 | 0 | 12 | 25 |
| 44 | 5985010504869 | 17 | 28 | 16 | 17 | 17 | 62 | 0 | 16 | 33 |
| 45 | 5996011863699 | 14 | 14 | 6 | 16 | 14 | 55 | 4 | 10 | 21 |
| 46 | 5998012545859 | 6 | 39 | 8 | 6 | 6 | 24 | 0 | 8 | 17 |
| 47 | 5998012602527 | 3 | 34 | 3 | 3 | 3 | 12 | 0 | 3 | 6 |
| 48 | 5998013581187 | 4 | 75 | 9 | 3 | 4 | 46 | 0 | 9 | 18 |
| 49 | 5999010659011 | 11 | 60 | 21 | 11 | 11 | 19 | 0 | 21 | 43 |
| 50 | 5999010661352 | 15 | 59 | 29 | 15 | 15 | 93 | 1 | 30 | 60 |
| 51 | 5999012401249 | 0 | 3 | 0 | 0 | 0 | 28 | 0 | 0 | 0 |
| 52 | 6150011029170 | 5 | 34 | 6 | 5 | 5 | 165 | 0 | 6 | 12 |

RCR = Repair Cycle Rqmt        OSR = Order and Shipping Rqmt        SL = Safety Level    RO = Requisitioning Objective
RR = Repair Rate               MFR = Maintenance Failure Rate
RCT = Repair Cycle Time        RR = Repair Rate
                               OST = Order Ship Time

63

# APPENDIX A - REPAIRABLE EQUATION

PREMIUM SIMULATION

RCR = (RR X RCT) / 30 day  OSR = [(MFR - RR) X OST] / 30 day  SL = RCR + OSR  RO = RCR + OSR +SL

| ITEM NO | NSN | RR | RCT | RCR | MFR | RR | OST | OSR | SL | RO |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1005011643558 | 47 | 38 | 60 | 50 | 47 | 23 | 2 | 62 | 125 |
| 2 | 1005012148884 | 13 | 27 | 12 | 15 | 13 | 18 | 1 | 13 | 27 |
| 3 | 1010012579961 | 6 | 41 | 8 | 5 | 6 | 72 | 0 | 8 | 17 |
| 4 | 1010012579962 | 4 | 31 | 4 | 4 | 4 | 16 | 0 | 4 | 9 |
| 5 | 1010012589660 | 4 | 29 | 4 | 4 | 4 | 13 | 0 | 4 | 8 |
| 6 | 1010012589661 | 4 | 53 | 7 | 4 | 4 | 267 | 0 | 7 | 14 |
| 7 | 1015011656212 | 7 | 36 | 8 | 7 | 7 | 23 | 1 | 8 | 17 |
| 8 | 1240010380531 | 15 | 29 | 14 | 15 | 15 | 18 | 0 | 14 | 28 |
| 9 | 1240010397273 | 7 | 38 | 9 | 8 | 7 | 43 | 0 | 10 | 20 |
| 10 | 1240012018299 | 23 | 35 | 28 | 24 | 23 | 22 | 1 | 28 | 57 |
| 11 | 1260012362158 | 6 | 39 | 8 | 6 | 6 | 200 | 0 | 8 | 16 |
| 12 | 1290010377289 | 4 | 41 | 6 | 4 | 4 | 11 | 0 | 6 | 12 |
| 13 | 1430010403750 | 6 | 36 | 7 | 6 | 6 | 45 | 0 | 7 | 15 |
| 14 | 1440012156014 | 7 | 26 | 6 | 7 | 7 | 220 | 1 | 7 | 15 |
| 15 | 2350011996319 | 13 | 33 | 15 | 14 | 13 | 11 | 0 | 15 | 30 |
| 16 | 2510219083070 | 2 | 30 | 2 | 1 | 2 | 21 | 0 | 2 | 4 |
| 17 | 2520000893773 | 7 | 63 | 14 | 7 | 7 | 162 | 1 | 16 | 32 |
| 18 | 2520004507502 | 8 | 35 | 10 | 8 | 8 | 33 | 0 | 10 | 20 |
| 19 | 2520011173010 | 13 | 56 | 24 | 13 | 13 | 47 | 0 | 24 | 49 |
| 20 | 2520011343891 | 5 | 58 | 10 | 6 | 5 | 100 | 2 | 12 | 25 |
| 21 | 2520011441528 | 8 | 48 | 12 | 7 | 8 | 17 | 0 | 12 | 25 |
| 22 | 2520011448667 | 3 | 37 | 3 | 3 | 3 | 15 | 0 | 3 | 7 |
| 23 | 2520011787149 | 3 | 70 | 8 | 3 | 3 | 15 | 0 | 8 | 16 |
| 24 | 2530004385150 | 2 | 23 | 1 | 2 | 2 | 165 | 1 | 3 | 6 |
| 25 | 2530004385156 | 2 | 25 | 1 | 3 | 2 | 185 | 6 | 7 | 15 |
| 26 | 2530011418617 | 3 | 38 | 4 | 4 | 3 | 86 | 1 | 5 | 11 |
| 27 | 2530012014816 | 7 | 59 | 14 | 8 | 7 | 15 | 0 | 14 | 29 |
| 28 | 2815001780268 | 6 | 77 | 14 | 6 | 6 | 19 | 0 | 15 | 30 |
| 29 | 2815011357475 | 10 | 37 | 12 | 10 | 10 | 16 | 0 | 12 | 25 |
| 30 | 2815011408799 | 15 | 86 | 42 | 16 | 15 | 19 | 1 | 42 | 85 |
| 31 | 2815011650478 | 6 | 71 | 15 | 6 | 6 | 97 | 1 | 16 | 32 |
| 32 | 2815011867251 | 6 | 92 | 20 | 7 | 6 | 36 | 1 | 21 | 42 |
| 33 | 2990001184942 | 3 | 48 | 5 | 3 | 3 | 14 | 0 | 5 | 10 |
| 34 | 5820008920622 | 39 | 34 | 44 | 38 | 39 | 71 | 0 | 44 | 88 |
| 35 | 5820009303725 | 68 | 33 | 75 | 63 | 68 | 10 | 0 | 75 | 151 |
| 36 | 5820010692638 | 50 | 25 | 43 | 51 | 50 | 16 | 0 | 43 | 87 |
| 37 | 5820012705099 | 12 | 27 | 10 | 12 | 12 | 16 | 0 | 11 | 22 |
| 38 | 5820012868792 | 16 | 40 | 22 | 17 | 16 | 22 | 0 | 22 | 44 |
| 39 | 5820013652725 | 109 | 17 | 60 | 111 | 109 | 99 | 6 | 66 | 132 |
| 40 | 5830011385787 | 56 | 14 | 27 | 56 | 56 | 13 | 0 | 27 | 54 |
| 41 | 5895010655044 | 21 | 24 | 17 | 22 | 21 | 11 | 0 | 18 | 36 |
| 42 | 5895013343164 | 18 | 34 | 21 | 18 | 18 | 31 | 0 | 21 | 42 |
| 43 | 5895013393686 | 21 | 17 | 12 | 21 | 21 | 39 | 0 | 12 | 25 |
| 44 | 5985010504869 | 17 | 28 | 16 | 17 | 17 | 42 | 0 | 16 | 33 |
| 45 | 5996011863699 | 14 | 14 | 6 | 16 | 14 | 51 | 4 | 10 | 20 |
| 46 | 5998012545859 | 6 | 39 | 8 | 6 | 6 | 20 | 0 | 8 | 17 |
| 47 | 5998012602527 | 3 | 34 | 3 | 3 | 3 | 8 | 0 | 3 | 6 |
| 48 | 5998013581187 | 4 | 75 | 9 | 3 | 4 | 36 | 0 | 9 | 18 |
| 49 | 5999010659011 | 11 | 60 | 21 | 11 | 11 | 12 | 0 | 21 | 43 |
| 50 | 5999010661352 | 15 | 59 | 29 | 15 | 15 | 68 | 0 | 30 | 60 |
| 51 | 5999012401249 | 0 | 3 | 0 | 0 | 0 | 24 | 0 | 0 | 0 |
| 52 | 6150011029170 | 5 | 34 | 6 | 5 | 5 | 159 | 0 | 6 | 12 |

RCR = Repair Cycle Rqmt    OSR = Order and Shipping Rqmt    SL = Safety Level  RO = Requisitioning Objective
RR = Repair Rate           MFR = Maintenance Failure Rate
RCT = Repair Cycle Time    RR = Repair Rate
                           OST = Order Ship Time

64

# APPENDIX A - MFR DATA

| ITEM NO | EROs OPENED FOR EACH NSN | APR 96 | MAY 96 | JUN 96 | JUL 96 | AUG 96 | SEP 96 | OCT 96 | NOV 96 | DEC 96 | JAN 97 | FEB 97 | MAR 97 | APR 97 | MAY 97 | JUN 97 | JUL 97 | AUG 97 | SEP 97 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1005011643558 | 44 | 30 | 25 | 33 | 36 | 21 | 66 | 37 | 67 | 37 | 68 | 82 | 88 | 51 | 33 | 36 | 23 | 32 |
| 2 | 1005012148884 | 17 | 18 | 8 | 5 | 14 | 5 | 17 | 5 | 2 | 11 | 24 | 22 | 22 | 18 | 26 | 26 | 33 | 12 |
| 3 | 1010012579961 | 9 | 8 | 4 | 1 | 9 | 6 | 4 | 1 | 7 | 6 | 4 | 7 | 4 | 12 | 4 | 3 | 7 | 9 |
| 4 | 1010012579962 | 3 | 5 | 0 | 1 | 2 | 5 | 9 | 2 | 3 | 2 | 3 | 4 | 5 | 6 | 4 | 8 | 5 | 5 |
| 5 | 1010012589660 | 2 | 5 | 4 | 3 | 3 | 3 | 6 | 4 | 4 | 3 | 4 | 1 | 7 | 5 | 3 | 4 | 3 | 7 |
| 6 | 1010012589661 | 6 | 3 | 3 | 1 | 5 | 3 | 6 | 1 | 3 | 2 | 9 | 1 | 2 | 7 | 3 | 1 | 2 | 2 |
| 7 | 1015011656212 | 13 | 5 | 3 | 6 | 7 | 14 | 2 | 2 | 7 | 10 | 9 | 14 | 8 | 7 | 6 | 3 | 6 | 4 |
| 8 | 1240010380531 | 11 | 16 | 15 | 12 | 13 | 15 | 10 | 25 | 10 | 15 | 15 | 10 | 21 | 18 | 16 | 14 | 7 | 6 |
| 9 | 1240010397273 | 6 | 7 | 10 | 1 | 6 | 6 | 8 | 3 | 9 | 6 | 10 | 6 | 13 | 13 | 8 | 8 | 9 | 1 |
| 10 | 1240012018299 | 20 | 9 | 21 | 17 | 23 | 25 | 29 | 18 | 30 | 26 | 23 | 25 | 38 | 22 | 25 | 25 | 13 | 8 |
| 11 | 1260012362158 | 10 | 6 | 7 | 2 | 1 | 6 | 3 | 2 | 5 | 3 | 23 | 9 | 4 | 4 | 5 | 2 | 2 | 2 |
| 12 | 1290010377289 | 4 | 3 | 4 | 6 | 9 | 1 | 4 | 2 | 4 | 2 | 5 | 4 | 4 | 4 | 6 | 5 | 7 | 4 |
| 13 | 1430010403750 | 7 | 4 | 8 | 10 | 4 | 3 | 7 | 7 | 16 | 2 | 2 | 3 | 0 | 7 | 16 | 5 | 4 | 2 |
| 14 | 1440012156014 | 5 | 11 | 10 | 8 | 11 | 8 | 4 | 3 | 6 | 14 | 9 | 4 | 4 | 6 | 8 | 7 | 9 | 3 |
| 15 | 2350011996319 | 6 | 3 | 10 | 3 | 17 | 12 | 26 | 2 | 10 | 12 | 20 | 16 | 14 | 15 | 22 | 20 | 16 | 9 |
| 16 | 2510219083070 | 1 | 2 | 1 | 1 | 6 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 2 | 5 | 1 | 1 | 0 | 1 |
| 17 | 2520000893773 | 6 | 17 | 6 | 8 | 7 | 9 | 15 | 3 | 5 | 4 | 5 | 7 | 7 | 11 | 6 | 3 | 3 | 0 |
| 18 | 2520004507502 | 1 | 3 | 14 | 8 | 8 | 14 | 11 | 3 | 10 | 5 | 6 | 3 | 18 | 8 | 7 | 10 | 9 | 6 |
| 19 | 2520011173010 | 20 | 18 | 23 | 13 | 15 | 8 | 6 | 8 | 10 | 18 | 22 | 12 | 9 | 17 | 14 | 10 | 4 | 3 |
| 20 | 2520011343891 | 5 | 3 | 8 | 6 | 1 | 5 | 8 | 9 | 10 | 4 | 4 | 2 | 7 | 10 | 7 | 6 | 1 | 1 |
| 21 | 2520011441528 | 4 | 15 | 7 | 4 | 8 | 3 | 10 | 5 | 5 | 5 | 11 | 10 | 5 | 13 | 4 | 7 | 8 | 3 |
| 22 | 2520011448667 | 0 | 0 | 6 | 1 | 2 | 1 | 2 | 1 | 4 | 3 | 1 | 6 | 3 | 5 | 4 | 6 | 3 | 0 |
| 23 | 2520011787149 | 3 | 5 | 2 | 4 | 3 | 1 | 4 | 2 | 2 | 5 | 6 | 4 | 3 | 5 | 1 | 1 | 0 | 0 |
| 24 | 2530004385150 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 2 | 1 | 0 | 4 | 2 | 0 | 5 | 3 | 5 | 8 | 1 |
| 25 | 2530004385156 | 0 | 0 | 3 | 0 | 2 | 1 | 3 | 1 | 0 | 13 | 0 | 0 | 3 | 1 | 7 | 5 | 5 | 0 |
| 26 | 2530011418617 | 1 | 2 | 7 | 0 | 3 | 2 | 0 | 2 | 4 | 3 | 6 | 3 | 13 | 4 | 3 | 2 | 0 | 1 |
| 27 | 2530012014816 | 5 | 5 | 10 | 8 | 6 | 7 | 6 | 9 | 12 | 11 | 8 | 6 | 5 | 12 | 5 | 5 | 0 | 0 |
| 28 | 2815001780268 | 6 | 8 | 7 | 4 | 9 | 5 | 5 | 2 | 0 | 8 | 18 | 3 | 8 | 8 | 5 | 2 | 2 | 0 |
| 29 | 2815011357475 | 8 | 8 | 4 | 2 | 28 | 10 | 18 | 8 | 2 | 4 | 15 | 15 | 10 | 9 | 3 | 11 | 4 | 4 |
| 30 | 2815011408799 | 13 | 16 | 13 | 12 | 15 | 19 | 20 | 19 | 9 | 19 | 14 | 20 | 20 | 10 | 18 | 8 | 5 | 5 |
| 31 | 2815011650478 | 6 | 4 | 6 | 6 | 12 | 5 | 5 | 11 | 6 | 4 | 9 | 6 | 7 | 2 | 5 | 3 | 4 | 1 |
| 32 | 2815011867251 | 12 | 5 | 10 | 4 | 17 | 5 | 8 | 4 | 13 | 6 | 10 | 4 | 6 | 3 | 7 | 1 | 2 | 0 |
| 33 | 2990001184942 | 4 | 6 | 7 | 1 | 3 | 2 | 4 | 0 | 3 | 2 | 2 | 4 | 5 | 2 | 1 | 5 | 0 | 0 |
| 34 | 5820008920622 | 80 | 71 | 56 | 48 | 69 | 43 | 74 | 18 | 39 | 26 | 19 | 16 | 32 | 27 | 29 | 58 | 17 | 5 |
| 35 | 5820009303725 | 230 | 171 | 113 | 111 | 157 | 54 | 40 | 57 | 90 | 26 | 33 | 56 | 42 | 27 | 38 | 45 | 23 | 7 |
| 36 | 5820010692638 | 57 | 56 | 69 | 51 | 60 | 24 | 38 | 29 | 47 | 64 | 61 | 57 | 55 | 45 | 68 | 68 | 69 | 16 |
| 37 | 5820012705099 | 16 | 10 | 13 | 5 | 13 | 5 | 5 | 15 | 7 | 19 | 23 | 14 | 15 | 6 | 13 | 14 | 12 | 6 |
| 38 | 5820012868792 | 15 | 20 | 23 | 9 | 19 | 12 | 5 | 9 | 22 | 24 | 13 | 24 | 32 | 16 | 14 | 9 | 11 | 5 |
| 39 | 5820013652725 | 49 | 50 | 95 | 93 | 111 | 81 | 111 | 97 | 100 | 103 | 157 | 125 | 141 | 148 | 118 | 88 | 115 | 77 |
| 40 | 5830011385787 | 43 | 38 | 96 | 50 | 91 | 46 | 46 | 23 | 55 | 47 | 72 | 67 | 48 | 40 | 73 | 66 | 84 | 43 |
| 41 | 5895010655044 | 28 | 22 | 23 | 13 | 16 | 13 | 10 | 17 | 29 | 29 | 28 | 25 | 34 | 21 | 33 | 21 | 18 | 9 |
| 42 | 5895013343164 | 12 | 14 | 13 | 9 | 16 | 12 | 7 | 13 | 18 | 26 | 36 | 29 | 11 | 19 | 19 | 20 | 21 | 16 |
| 43 | 5895013393686 | 15 | 8 | 16 | 17 | 44 | 11 | 30 | 18 | 15 | 27 | 11 | 27 | 13 | 9 | 38 | 45 | 15 | 23 |
| 44 | 5985010504869 | 32 | 22 | 13 | 14 | 17 | 12 | 22 | 14 | 19 | 17 | 19 | 11 | 27 | 11 | 20 | 13 | 16 | 9 |
| 45 | 5996011863699 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 15 | 18 | 29 | 42 | 26 | 29 | 30 | 40 | 32 | 12 |
| 46 | 5998012545859 | 18 | 10 | 8 | 4 | 9 | 9 | 6 | 6 | 5 | 8 | 3 | 3 | 2 | 5 | 2 | 1 | 13 | 1 |
| 47 | 5998012602527 | 3 | 1 | 2 | 7 | 1 | 0 | 0 | 2 | 0 | 6 | 0 | 2 | 7 | 5 | 6 | 2 | 0 | 0 |
| 48 | 5998013581187 | 4 | 4 | 3 | 4 | 3 | 2 | 5 | 2 | 4 | 6 | 2 | 2 | 1 | 9 | 1 | 2 | 4 | 1 |
| 49 | 5999010659011 | 21 | 16 | 9 | 10 | 8 | 4 | 8 | 3 | 8 | 9 | 13 | 18 | 11 | 14 | 13 | 29 | 19 | 1 |
| 50 | 5999010661352 | 16 | 24 | 10 | 8 | 10 | 8 | 8 | 10 | 8 | 23 | 14 | 34 | 15 | 16 | 12 | 32 | 18 | 7 |
| 51 | 5999012401249 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 2 | 0 |
| 52 | 6150011029170 | 4 | 4 | 4 | 14 | 9 | 2 | 2 | 5 | 7 | 7 | 5 | 7 | 3 | 1 | 0 | 4 | 3 | 1 |

# APPENDIX A - MFR DATA

| ITEM NO | 12-MONTH AVG MFR FOR EACH NSN | MAR 97 | APR 97 | MAY 97 | JUN 97 | JUL 97 | AUG 97 | SEP 97 |
|---|---|---|---|---|---|---|---|---|
| 1 | 1005011643558 | 46 | 49 | 51 | 52 | 52 | 51 | 52 |
| 2 | 1005012148884 | 12 | 13 | 13 | 14 | 16 | 18 | 18 |
| 3 | 1010012579961 | 6 | 5 | 5 | 5 | 6 | 5 | 6 |
| 4 | 1010012579962 | 3 | 3 | 4 | 4 | 4 | 5 | 5 |
| 5 | 1010012589660 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 6 | 1010012589661 | 4 | 3 | 4 | 4 | 4 | 3 | 3 |
| 7 | 1015011656212 | 8 | 7 | 7 | 8 | 7 | 7 | 7 |
| 8 | 1240010380531 | 14 | 15 | 15 | 15 | 15 | 15 | 14 |
| 9 | 1240010397273 | 7 | 7 | 8 | 7 | 8 | 8 | 8 |
| 10 | 1240012018299 | 22 | 24 | 25 | 25 | 26 | 25 | 24 |
| 11 | 1260012362158 | 6 | 6 | 6 | 6 | 6 | 6 | 5 |
| 12 | 1290010377289 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 13 | 1430010403750 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 14 | 1440012156014 | 8 | 8 | 7 | 7 | 7 | 7 | 6 |
| 15 | 2350011996319 | 11 | 12 | 13 | 14 | 16 | 15 | 15 |
| 16 | 2510219083070 | 1 | 1 | 2 | 2 | 2 | 1 | 1 |
| 17 | 2520000893773 | 8 | 8 | 7 | 7 | 7 | 7 | 6 |
| 18 | 2520004507502 | 7 | 9 | 9 | 8 | 9 | 9 | 8 |
| 19 | 2520011173010 | 14 | 14 | 13 | 13 | 12 | 12 | 11 |
| 20 | 2520011343891 | 5 | 6 | 6 | 6 | 6 | 6 | 6 |
| 21 | 2520011441528 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 22 | 2520011448667 | 2 | 3 | 3 | 3 | 3 | 3 | 3 |
| 23 | 2520011787149 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 24 | 2530004385150 | 1 | 1 | 2 | 2 | 2 | 3 | 3 |
| 25 | 2530004385156 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| 26 | 2530011418617 | 3 | 4 | 4 | 4 | 4 | 4 | 3 |
| 27 | 2530012014816 | 8 | 8 | 8 | 8 | 8 | 7 | 7 |
| 28 | 2815001780268 | 6 | 6 | 6 | 6 | 6 | 6 | 5 |
| 29 | 2815011357475 | 10 | 10 | 10 | 10 | 11 | 9 | 9 |
| 30 | 2815011408799 | 16 | 16 | 16 | 16 | 16 | 15 | 14 |
| 31 | 2815011650478 | 7 | 7 | 7 | 7 | 6 | 6 | 5 |
| 32 | 2815011867251 | 8 | 8 | 8 | 7 | 7 | 6 | 5 |
| 33 | 2990001184942 | 3 | 3 | 3 | 2 | 3 | 3 | 2 |
| 34 | 5820008920622 | 47 | 43 | 39 | 37 | 38 | 33 | 30 |
| 35 | 5820009303725 | 95 | 79 | 67 | 61 | 55 | 44 | 40 |
| 36 | 5820010692638 | 51 | 51 | 50 | 50 | 51 | 52 | 51 |
| 37 | 5820012705099 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 38 | 5820012868792 | 16 | 18 | 17 | 17 | 17 | 16 | 15 |
| 39 | 5820013652725 | 98 | 105 | 114 | 115 | 115 | 115 | 115 |
| 40 | 5830011385787 | 56 | 57 | 57 | 55 | 56 | 56 | 55 |
| 41 | 5895010655044 | 21 | 22 | 22 | 22 | 23 | 23 | 23 |
| 42 | 5895013343164 | 17 | 17 | 17 | 18 | 19 | 19 | 20 |
| 43 | 5895013393686 | 20 | 20 | 20 | 22 | 24 | 22 | 23 |
| 44 | 5985010504869 | 18 | 17 | 16 | 17 | 17 | 17 | 17 |
| 45 | 5996011863699 | 9 | 11 | 13 | 16 | 19 | 22 | 23 |
| 46 | 5998012545859 | 7 | 6 | 6 | 5 | 5 | 5 | 5 |
| 47 | 5998012602527 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| 48 | 5998013581187 | 3 | 3 | 4 | 3 | 3 | 3 | 3 |
| 49 | 5999010659011 | 11 | 10 | 10 | 10 | 12 | 12 | 12 |
| 50 | 5999010661352 | 14 | 14 | 14 | 14 | 16 | 17 | 16 |
| 51 | 5999012401249 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 52 | 6150011029170 | 6 | 6 | 6 | 5 | 4 | 4 | 4 |

# APPENDIX A - RR DATA

| ITEM NO | EROs CLOSED FOR EACH NSN | APR 96 | MAY 96 | JUN 96 | JUL 96 | AUG 96 | SEP 96 | OCT 96 | NOV 96 | DEC 96 | JAN 97 | FEB 97 | MAR 97 | APR 97 | MAY 97 | JUN 97 | JUL 97 | AUG 97 | SEP 97 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1005011643558 | 29 | 24 | 21 | 26 | 29 | 36 | 16 | 52 | 32 | 43 | 79 | 40 | 95 | 57 | 98 | 53 | 29 | 50 |
| 2 | 1005012148884 | 16 | 16 | 9 | 4 | 6 | 13 | 4 | 12 | 6 | 5 | 19 | 13 | 18 | 13 | 19 | 41 | 33 | 38 |
| 3 | 1010012579961 | 2 | 3 | 10 | 1 | 5 | 5 | 6 | 7 | 3 | 4 | 3 | 14 | 6 | 9 | 5 | 3 | 8 | 11 |
| 4 | 1010012579962 | 0 | 1 | 5 | 1 | 1 | 3 | 2 | 7 | 2 | 4 | 3 | 8 | 3 | 6 | 5 | 4 | 10 | 6 |
| 5 | 1010012589660 | 0 | 1 | 5 | 3 | 5 | 4 | 3 | 3 | 4 | 5 | 3 | 5 | 3 | 8 | 3 | 3 | 3 | 10 |
| 6 | 1010012589661 | 1 | 0 | 4 | 1 | 4 | 4 | 3 | 3 | 3 | 5 | 8 | 3 | 2 | 6 | 6 | 1 | 2 | 4 |
| 7 | 1015011656212 | 7 | 10 | 1 | 3 | 8 | 9 | 8 | 3 | 0 | 9 | 5 | 14 | 8 | 4 | 6 | 11 | 7 | 13 |
| 8 | 1240010380531 | 1 | 8 | 21 | 13 | 11 | 18 | 11 | 9 | 17 | 14 | 16 | 19 | 9 | 21 | 20 | 18 | 12 | 11 |
| 9 | 1240010397273 | 0 | 6 | 9 | 3 | 4 | 6 | 7 | 4 | 5 | 7 | 9 | 5 | 13 | 18 | 7 | 8 | 10 | 9 |
| 10 | 1240012018299 | 7 | 9 | 21 | 15 | 16 | 23 | 18 | 9 | 26 | 28 | 31 | 26 | 33 | 34 | 29 | 26 | 11 | 35 |
| 11 | 1260012362158 | 4 | 4 | 4 | 4 | 1 | 10 | 3 | 5 | 5 | 3 | 18 | 6 | 5 | 7 | 4 | 4 | 3 | 6 |
| 12 | 1290010377289 | 2 | 2 | 5 | 3 | 6 | 5 | 2 | 4 | 2 | 2 | 5 | 4 | 7 | 2 | 5 | 7 | 6 | 9 |
| 13 | 1430010403750 | 3 | 6 | 3 | 7 | 13 | 2 | 3 | 1 | 6 | 17 | 2 | 2 | 5 | 2 | 14 | 11 | 7 | 3 |
| 14 | 1440012156014 | 3 | 9 | 10 | 5 | 14 | 4 | 7 | 4 | 2 | 14 | 10 | 6 | 1 | 6 | 6 | 9 | 12 | 8 |
| 15 | 2350011996319 | 0 | 7 | 3 | 5 | 7 | 13 | 22 | 11 | 4 | 7 | 11 | 22 | 14 | 14 | 20 | 23 | 33 | 17 |
| 16 | 2510219083070 | 0 | 0 | 1 | 0 | 4 | 2 | 3 | 0 | 0 | 0 | 1 | 2 | 1 | 4 | 2 | 4 | 0 | 2 |
| 17 | 2520000893773 | 0 | 3 | 9 | 11 | 11 | 7 | 7 | 4 | 7 | 5 | 6 | 4 | 8 | 8 | 8 | 14 | 8 | 2 |
| 18 | 2520004507502 | 0 | 1 | 3 | 12 | 15 | 2 | 5 | 9 | 14 | 8 | 3 | 4 | 14 | 14 | 10 | 7 | 9 | 14 |
| 19 | 2520011173010 | 6 | 15 | 13 | 17 | 16 | 13 | 5 | 5 | 5 | 14 | 14 | 24 | 9 | 19 | 19 | 15 | 10 | 11 |
| 20 | 2520011343891 | 0 | 4 | 1 | 6 | 7 | 3 | 1 | 4 | 2 | 7 | 12 | 4 | 4 | 7 | 6 | 11 | 10 | 8 |
| 21 | 2520011441528 | 0 | 2 | 4 | 10 | 10 | 6 | 3 | 7 | 4 | 12 | 11 | 4 | 7 | 12 | 6 | 10 | 10 | 9 |
| 22 | 2520011448667 | 1 | 0 | 1 | 0 | 2 | 4 | 2 | 2 | 0 | 4 | 2 | 6 | 2 | 6 | 5 | 3 | 4 | 5 |
| 23 | 2520011787149 | 0 | 1 | 3 | 0 | 3 | 2 | 3 | 2 | 1 | 7 | 4 | 8 | 2 | 3 | 6 | 3 | 0 | 3 |
| 24 | 2530004385150 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 7 | 4 | 6 |
| 25 | 2530004385156 | 0 | 0 | 3 | 0 | 0 | 1 | 1 | 3 | 2 | 2 | 0 | 1 | 0 | 3 | 1 | 9 | 5 | 3 |
| 26 | 2530011418617 | 0 | 0 | 2 | 2 | 7 | 3 | 0 | 0 | 2 | 3 | 1 | 0 | 5 | 10 | 9 | 5 | 5 | 2 |
| 27 | 2530012014816 | 0 | 0 | 0 | 16 | 7 | 6 | 5 | 6 | 1 | 7 | 10 | 7 | 1 | 7 | 26 | 16 | 5 | 0 |
| 28 | 2815001780268 | 0 | 2 | 3 | 2 | 10 | 2 | 3 | 1 | 5 | 8 | 9 | 8 | 9 | 4 | 8 | 8 | 6 | 12 |
| 29 | 2815011357475 | 6 | 6 | 3 | 3 | 17 | 12 | 13 | 7 | 5 | 3 | 13 | 17 | 18 | 13 | 8 | 7 | 7 | 5 |
| 30 | 2815011408799 | 2 | 4 | 2 | 4 | 10 | 8 | 11 | 18 | 15 | 20 | 12 | 19 | 15 | 22 | 31 | 18 | 14 | 30 |
| 31 | 2815011650478 | 0 | 2 | 1 | 2 | 9 | 10 | 5 | 7 | 4 | 4 | 5 | 8 | 13 | 8 | 0 | 13 | 4 | 7 |
| 32 | 2815011867251 | 3 | 2 | 6 | 6 | 2 | 3 | 5 | 10 | 6 | 6 | 7 | 6 | 5 | 13 | 11 | 7 | 6 | 13 |
| 33 | 2990001184942 | 0 | 3 | 6 | 1 | 6 | 3 | 1 | 1 | 4 | 3 | 1 | 3 | 3 | 6 | 1 | 6 | 2 | 1 |
| 34 | 5820008920622 | 35 | 41 | 71 | 84 | 60 | 33 | 61 | 27 | 42 | 25 | 21 | 27 | 46 | 22 | 40 | 12 | 30 | 51 |
| 35 | 5820009303725 | 120 | 109 | 157 | 125 | 180 | 84 | 43 | 60 | 65 | 66 | 25 | 38 | 54 | 55 | 34 | 34 | 33 | 40 |
| 36 | 5820010692638 | 18 | 56 | 63 | 46 | 75 | 34 | 28 | 32 | 36 | 54 | 58 | 61 | 58 | 63 | 43 | 58 | 75 | 76 |
| 37 | 5820012705099 | 10 | 9 | 11 | 8 | 10 | 5 | 4 | 13 | 5 | 15 | 27 | 14 | 11 | 14 | 9 | 15 | 13 | 18 |
| 38 | 5820012868792 | 4 | 13 | 20 | 8 | 27 | 9 | 4 | 6 | 14 | 20 | 17 | 20 | 38 | 21 | 25 | 10 | 11 | 15 |
| 39 | 5820013652725 | 27 | 46 | 74 | 105 | 77 | 84 | 98 | 106 | 120 | 74 | 155 | 120 | 141 | 153 | 122 | 99 | 131 | 127 |
| 40 | 5830011385787 | 33 | 32 | 76 | 71 | 81 | 44 | 48 | 25 | 60 | 27 | 77 | 75 | 55 | 39 | 65 | 70 | 77 | 76 |
| 41 | 5895010655044 | 14 | 18 | 30 | 12 | 19 | 11 | 12 | 12 | 23 | 27 | 25 | 25 | 20 | 33 | 35 | 31 | 14 | 28 |
| 42 | 5895013343164 | 2 | 13 | 8 | 9 | 12 | 18 | 11 | 5 | 15 | 20 | 39 | 32 | 17 | 16 | 22 | 20 | 27 | 25 |
| 43 | 5895013393686 | 7 | 10 | 12 | 15 | 35 | 27 | 9 | 32 | 17 | 31 | 9 | 26 | 9 | 14 | 36 | 47 | 13 | 33 |
| 44 | 5985010504869 | 9 | 23 | 17 | 13 | 26 | 14 | 11 | 15 | 19 | 17 | 17 | 16 | 21 | 13 | 18 | 23 | 12 | 24 |
| 45 | 5996011863699 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 25 | 36 | 31 | 19 | 28 | 41 | 43 | 38 |
| 46 | 5998012545859 | 4 | 6 | 12 | 10 | 10 | 12 | 3 | 5 | 4 | 1 | 9 | 5 | 4 | 6 | 5 | 3 | 3 | 11 |
| 47 | 5998012602527 | 0 | 3 | 0 | 6 | 2 | 2 | 0 | 0 | 0 | 5 | 1 | 2 | 1 | 6 | 5 | 7 | 4 | 0 |
| 48 | 5998013581187 | 0 | 0 | 3 | 3 | 5 | 2 | 1 | 1 | 4 | 2 | 9 | 3 | 2 | 6 | 6 | 4 | 4 | 4 |
| 49 | 5999010659011 | 2 | 10 | 12 | 14 | 7 | 10 | 4 | 5 | 8 | 4 | 10 | 15 | 7 | 23 | 11 | 33 | 21 | 19 |
| 50 | 5999010661352 | 0 | 9 | 13 | 10 | 6 | 10 | 15 | 10 | 9 | 16 | 18 | 13 | 18 | 34 | 15 | 22 | 24 | 31 |
| 51 | 5999012401249 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 2 | 0 |
| 52 | 6150011029170 | 0 | 2 | 5 | 2 | 21 | 4 | 0 | 5 | 1 | 11 | 5 | 4 | 9 | 3 | 2 | 3 | 1 | 4 |

# APPENDIX A - RR DATA

| ITEM NO | 12-MONTH AVG RR FOR EACH NSN | MAR 97 | APR 97 | MAY 97 | JUN 97 | JUL 97 | AUG 97 | SEP 97 |
|---|---|---|---|---|---|---|---|---|
| 1 | 1005011643558 | 36 | 41 | 44 | 50 | 53 | 53 | 54 |
| 2 | 1005012148884 | 10 | 10 | 10 | 11 | 14 | 16 | 18 |
| 3 | 1010012579961 | 5 | 6 | 6 | 6 | 6 | 6 | 7 |
| 4 | 1010012579962 | 3 | 3 | 4 | 4 | 4 | 5 | 5 |
| 5 | 1010012589660 | 3 | 4 | 4 | 4 | 4 | 4 | 4 |
| 6 | 1010012589661 | 3 | 3 | 4 | 4 | 4 | 4 | 4 |
| 7 | 1015011656212 | 6 | 7 | 6 | 6 | 7 | 7 | 7 |
| 8 | 1240010380531 | 13 | 14 | 15 | 15 | 15 | 15 | 15 |
| 9 | 1240010397273 | 5 | 7 | 8 | 7 | 8 | 8 | 9 |
| 10 | 1240012018299 | 19 | 21 | 23 | 24 | 25 | 25 | 26 |
| 11 | 1260012362158 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 12 | 1290010377289 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| 13 | 1430010403750 | 5 | 6 | 5 | 6 | 7 | 6 | 6 |
| 14 | 1440012156014 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 15 | 2350011996319 | 9 | 11 | 11 | 13 | 14 | 16 | 17 |
| 16 | 2510219083070 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| 17 | 2520000893773 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| 18 | 2520004507502 | 6 | 8 | 9 | 9 | 9 | 8 | 9 |
| 19 | 2520011173010 | 12 | 13 | 13 | 13 | 13 | 13 | 13 |
| 20 | 2520011343891 | 4 | 5 | 5 | 5 | 6 | 6 | 6 |
| 21 | 2520011441528 | 6 | 7 | 8 | 8 | 8 | 8 | 8 |
| 22 | 2520011448667 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| 23 | 2520011787149 | 3 | 3 | 3 | 3 | 4 | 3 | 4 |
| 24 | 2530004385150 | 1 | 1 | 1 | 2 | 2 | 2 | 3 |
| 25 | 2530004385156 | 1 | 1 | 1 | 1 | 2 | 2 | 3 |
| 26 | 2530011418617 | 2 | 2 | 3 | 4 | 4 | 4 | 4 |
| 27 | 2530012014816 | 5 | 6 | 6 | 8 | 8 | 8 | 8 |
| 28 | 2815001780268 | 4 | 5 | 5 | 6 | 6 | 6 | 7 |
| 29 | 2815011357475 | 9 | 10 | 10 | 11 | 11 | 10 | 10 |
| 30 | 2815011408799 | 10 | 12 | 13 | 15 | 17 | 17 | 19 |
| 31 | 2815011650478 | 5 | 6 | 6 | 6 | 7 | 7 | 7 |
| 32 | 2815011867251 | 5 | 5 | 6 | 7 | 7 | 7 | 8 |
| 33 | 2990001184942 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 34 | 5820008920622 | 44 | 45 | 43 | 41 | 35 | 32 | 34 |
| 35 | 5820009303725 | 89 | 84 | 79 | 69 | 62 | 49 | 46 |
| 36 | 5820010692638 | 47 | 50 | 51 | 49 | 50 | 50 | 54 |
| 37 | 5820012705099 | 11 | 11 | 11 | 11 | 12 | 12 | 13 |
| 38 | 5820012868792 | 14 | 16 | 17 | 17 | 18 | 16 | 17 |
| 39 | 5820013652725 | 91 | 100 | 109 | 113 | 112 | 117 | 121 |
| 40 | 5830011385787 | 54 | 56 | 57 | 56 | 56 | 55 | 58 |
| 41 | 5895010655044 | 19 | 20 | 21 | 21 | 23 | 22 | 24 |
| 42 | 5895013343164 | 15 | 17 | 17 | 18 | 19 | 20 | 21 |
| 43 | 5895013393686 | 19 | 19 | 20 | 22 | 24 | 23 | 23 |
| 44 | 5985010504869 | 16 | 17 | 17 | 17 | 18 | 16 | 17 |
| 45 | 5996011863699 | 6 | 9 | 11 | 13 | 16 | 20 | 23 |
| 46 | 5998012545859 | 7 | 7 | 7 | 6 | 6 | 5 | 5 |
| 47 | 5998012602527 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| 48 | 5998013581187 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| 49 | 5999010659011 | 8 | 9 | 10 | 10 | 11 | 13 | 13 |
| 50 | 5999010661352 | 11 | 12 | 14 | 15 | 16 | 17 | 19 |
| 51 | 5999012401249 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 52 | 6150011029170 | 5 | 6 | 6 | 6 | 6 | 4 | 4 |

# APPENDIX A - RCT DATA

| ITEM NO | TOTAL RCT FOR EACH NSN | APR 96 | MAY 96 | JUN 96 | JUL 96 | AUG 96 | SEP 96 | OCT 96 | NOV 96 | DEC 96 | JAN 97 | FEB 97 | MAR 97 | APR 97 | MAY 97 | JUN 97 | JUL 97 | AUG 97 | SEP 97 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1005011643558 | 151 | 402 | 651 | 786 | 613 | 1447 | 562 | 1147 | 1561 | 2233 | 3389 | 1608 | 4452 | 2300 | 5112 | 1920 | 957 | 1046 |
| 2 | 1005012148884 | 83 | 134 | 149 | 55 | 135 | 275 | 124 | 434 | 244 | 178 | 403 | 242 | 478 | 235 | 726 | 2241 | 766 | 1094 |
| 3 | 1010012579961 | 14 | 73 | 331 | 36 | 516 | 323 | 337 | 358 | 118 | 103 | 186 | 456 | 77 | 75 | 31 | 177 | 52 | 108 |
| 4 | 1010012579962 | 0 | 7 | 164 | 70 | 6 | 31 | 130 | 209 | 34 | 245 | 165 | 318 | 39 | 52 | 81 | 28 | 155 | 65 |
| 5 | 1010012589660 | 0 | 9 | 209 | 136 | 183 | 140 | 60 | 76 | 133 | 237 | 15 | 367 | 16 | 65 | 88 | 69 | 50 | 174 |
| 6 | 1010012589661 | 22 | 0 | 237 | 92 | 317 | 183 | 237 | 119 | 355 | 371 | 229 | 77 | 42 | 290 | 110 | 40 | 63 | 84 |
| 7 | 1015011656212 | 88 | 188 | 36 | 77 | 142 | 52 | 314 | 130 | 0 | 500 | 139 | 469 | 152 | 258 | 380 | 839 | 725 | 481 |
| 8 | 1240010380531 | 19 | 160 | 448 | 365 | 339 | 614 | 220 | 223 | 284 | 382 | 407 | 432 | 556 | 741 | 573 | 583 | 323 | 235 |
| 9 | 1240010397273 | 0 | 122 | 164 | 94 | 199 | 214 | 344 | 143 | 139 | 184 | 738 | 128 | 575 | 400 | 185 | 521 | 371 | 331 |
| 10 | 1240012018299 | 38 | 156 | 309 | 387 | 310 | 485 | 617 | 221 | 912 | 1075 | 1992 | 949 | 1316 | 1391 | 1874 | 1059 | 285 | 2238 |
| 11 | 1260012362158 | 8 | 110 | 48 | 90 | 59 | 932 | 202 | 229 | 112 | 83 | 198 | 74 | 100 | 506 | 176 | 120 | 175 | 265 |
| 12 | 1290010377289 | 26 | 19 | 170 | 74 | 114 | 176 | 99 | 200 | 29 | 69 | 176 | 170 | 202 | 359 | 129 | 174 | 139 | 220 |
| 13 | 1430010403750 | 19 | 206 | 75 | 200 | 332 | 22 | 76 | 12 | 287 | 613 | 127 | 35 | 566 | 103 | 101 | 447 | 187 | 38 |
| 14 | 1440012156014 | 26 | 99 | 202 | 100 | 241 | 55 | 134 | 146 | 19 | 308 | 261 | 132 | 63 | 140 | 319 | 356 | 428 | 236 |
| 15 | 2350011996319 | 0 | 70 | 49 | 127 | 72 | 246 | 611 | 614 | 181 | 351 | 181 | 659 | 226 | 497 | 1905 | 682 | 1774 | 366 |
| 16 | 2510219083070 | 0 | 0 | 64 | 0 | 212 | 160 | 138 | 0 | 0 | 0 | 35 | 70 | 23 | 123 | 60 | 457 | 0 | 83 |
| 17 | 2520000893773 | 0 | 55 | 460 | 750 | 424 | 404 | 242 | 149 | 537 | 332 | 552 | 386 | 382 | 423 | 970 | 1108 | 633 | 73 |
| 18 | 2520004507502 | 0 | 1 | 113 | 486 | 489 | 60 | 148 | 597 | 702 | 305 | 45 | 119 | 731 | 696 | 151 | 237 | 171 | 343 |
| 19 | 2520011173010 | 69 | 246 | 425 | 633 | 932 | 548 | 168 | 280 | 781 | 878 | 639 | 1068 | 233 | 1001 | 1258 | 878 | 816 | 668 |
| 20 | 2520011343891 | 0 | 88 | 8 | 196 | 403 | 116 | 6 | 89 | 44 | 463 | 676 | 422 | 496 | 539 | 832 | 1155 | 920 | 705 |
| 21 | 2520011441528 | 0 | 46 | 100 | 484 | 773 | 264 | 157 | 456 | 234 | 830 | 454 | 45 | 399 | 587 | 235 | 406 | 299 | 541 |
| 22 | 2520011448667 | 3 | 0 | 18 | 0 | 139 | 314 | 14 | 177 | 0 | 247 | 87 | 231 | 45 | 169 | 202 | 21 | 171 | 277 |
| 23 | 2520011787149 | 0 | 42 | 35 | 0 | 246 | 186 | 287 | 75 | 158 | 684 | 150 | 168 | 138 | 63 | 836 | 490 | 0 | 399 |
| 24 | 2530004385150 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 58 | 201 | 122 | 28 | 42 | 20 | 15 | 51 | 92 | 56 | 140 |
| 25 | 2530004385156 | 0 | 0 | 33 | 0 | 0 | 25 | 63 | 134 | 69 | 24 | 0 | 55 | 0 | 98 | 35 | 155 | 104 | 90 |
| 26 | 2530011418617 | 0 | 0 | 16 | 142 | 290 | 171 | 0 | 0 | 102 | 171 | 6 | 0 | 390 | 682 | 565 | 353 | 377 | 68 |
| 27 | 2530012014816 | 0 | 0 | 0 | 895 | 270 | 400 | 239 | 269 | 55 | 548 | 797 | 499 | 33 | 820 | 3065 | 708 | 293 | 0 |
| 28 | 2815001780268 | 0 | 33 | 99 | 110 | 849 | 176 | 126 | 110 | 694 | 877 | 177 | 290 | 872 | 188 | 712 | 1011 | 903 | 2209 |
| 29 | 2815011357475 | 59 | 79 | 75 | 133 | 253 | 414 | 320 | 259 | 188 | 1435 | 407 | 345 | 681 | 151 | 60 | 38 | 63 | |
| 30 | 2815011408799 | 16 | 57 | 120 | 166 | 946 | 692 | 967 | 1407 | 1513 | 1912 | 749 | 1457 | 1586 | 1868 | 4267 | 2078 | 2291 | 2742 |
| 31 | 2815011650478 | 0 | 50 | 8 | 41 | 511 | 547 | 655 | 374 | 452 | 345 | 324 | 942 | 930 | 407 | 0 | 1270 | 396 | 437 |
| 32 | 2815011867251 | 32 | 36 | 241 | 415 | 131 | 69 | 390 | 1080 | 536 | 479 | 723 | 812 | 602 | 1522 | 1001 | 1135 | 1010 | 3052 |
| 33 | 2990001184942 | 0 | 75 | 60 | 61 | 371 | 194 | 25 | 20 | 245 | 88 | 53 | 135 | 74 | 600 | 9 | 120 | 432 | 181 |
| 34 | 5820008920622 | 236 | 548 | 2469 | 2127 | 1162 | 764 | 1115 | 449 | 1740 | 1192 | 1131 | 878 | 2484 | 1045 | 1268 | 264 | 793 | 2654 |
| 35 | 5820009303725 | 982 | 1540 | 5650 | 4430 | 4976 | 2076 | 1111 | 2051 | 2450 | 2538 | 554 | 786 | 3001 | 2675 | 1509 | 954 | 710 | 2500 |
| 36 | 5820010692638 | 118 | 1011 | 927 | 1412 | 1603 | 668 | 859 | 1151 | 672 | 1455 | 1514 | 1614 | 1472 | 1847 | 1035 | 1528 | 2027 | 2289 |
| 37 | 5820012705099 | 66 | 110 | 184 | 198 | 127 | 95 | 258 | 121 | 56 | 545 | 1052 | 395 | 277 | 486 | 213 | 274 | 496 | 547 |
| 38 | 5820012868792 | 24 | 165 | 402 | 234 | 1042 | 325 | 190 | 225 | 454 | 1198 | 757 | 735 | 1734 | 881 | 917 | 532 | 490 | 472 |
| 39 | 5820013652725 | 149 | 616 | 892 | 1149 | 1172 | 1141 | 1300 | 1637 | 3014 | 1211 | 2543 | 1527 | 3389 | 2484 | 2157 | 1849 | 3752 | 2822 |
| 40 | 5830011385787 | 198 | 289 | 588 | 936 | 816 | 522 | 700 | 469 | 1182 | 442 | 1078 | 936 | 569 | 699 | 974 | 1173 | 976 | 1198 |
| 41 | 5895010655044 | 79 | 333 | 531 | 338 | 520 | 151 | 386 | 212 | 450 | 694 | 628 | 664 | 538 | 1116 | 1044 | 852 | 353 | 690 |
| 42 | 5895013343164 | 13 | 190 | 139 | 265 | 426 | 404 | 590 | 312 | 564 | 893 | 947 | 582 | 544 | 594 | 473 | 731 | 633 | 481 |
| 43 | 5895013393686 | 61 | 195 | 168 | 224 | 304 | 645 | 117 | 485 | 556 | 461 | 166 | 202 | 74 | 507 | 486 | 494 | 134 | 536 |
| 44 | 5985010504869 | 131 | 386 | 592 | 478 | 680 | 252 | 118 | 421 | 412 | 565 | 507 | 548 | 834 | 367 | 768 | 808 | 397 | 455 |
| 45 | 5996011863699 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 377 | 401 | 762 | 420 | 1046 | 913 | 1863 | 1446 | 982 |
| 46 | 5998012545859 | 51 | 125 | 488 | 455 | 392 | 353 | 106 | 179 | 143 | 27 | 420 | 214 | 63 | 910 | 74 | 91 | 7 | 183 |
| 47 | 5998012602527 | 0 | 74 | 0 | 78 | 142 | 156 | 0 | 0 | 0 | 235 | 75 | 67 | 31 | 315 | 133 | 280 | 340 | 0 |
| 48 | 5998013581187 | 0 | 0 | 163 | 166 | 380 | 141 | 85 | 143 | 383 | 175 | 405 | 47 | 104 | 1095 | 462 | 284 | 127 | 69 |
| 49 | 5999010659011 | 34 | 237 | 372 | 803 | 256 | 1117 | 343 | 162 | 670 | 307 | 284 | 922 | 580 | 1252 | 509 | 1245 | 854 | 610 |
| 50 | 5999010661352 | 0 | 213 | 363 | 708 | 333 | 682 | 1425 | 827 | 589 | 961 | 902 | 570 | 951 | 1571 | 973 | 1060 | 941 | 1163 |
| 51 | 5999012401249 | 0 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 17 | 13 | 0 | 24 | 0 |
| 52 | 6150011029170 | 0 | 57 | 201 | 90 | 491 | 135 | 0 | 297 | 34 | 496 | 103 | 101 | 413 | 157 | 117 | 33 | 21 | 127 |

# APPENDIX A - RCT DATA

| ITEM NO | AVERAGE RCT FOR EACH NSN | APR 96 | MAY 96 | JUN 96 | JUL 96 | AUG 96 | SEP 96 | OCT 96 | NOV 96 | DEC 96 | JAN 97 | FEB 97 | MAR 97 | APR 97 | MAY 97 | JUN 97 | JUL 97 | AUG 97 | SEP 97 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1005011643558 | 5 | 17 | 31 | 30 | 21 | 40 | 35 | 22 | 49 | 52 | 43 | 40 | 47 | 40 | 52 | 36 | 33 | 21 |
| 2 | 1005012148884 | 5 | 8 | 17 | 14 | 23 | 21 | 31 | 36 | 41 | 36 | 21 | 19 | 27 | 18 | 38 | 55 | 23 | 29 |
| 3 | 1010012579961 | 7 | 24 | 33 | 36 | 103 | 65 | 56 | 51 | 39 | 26 | 62 | 33 | 13 | 8 | 6 | 59 | 7 | 10 |
| 4 | 1010012579962 | 0 | 7 | 33 | 70 | 6 | 10 | 65 | 30 | 17 | 61 | 55 | 40 | 13 | 9 | 16 | 7 | 16 | 11 |
| 5 | 1010012589660 | 0 | 9 | 42 | 45 | 37 | 35 | 20 | 25 | 33 | 47 | 5 | 73 | 5 | 8 | 29 | 23 | 17 | 17 |
| 6 | 1010012589661 | 22 | 0 | 59 | 92 | 79 | 46 | 79 | 40 | 118 | 74 | 29 | 26 | 21 | 48 | 18 | 40 | 32 | 21 |
| 7 | 1015011656212 | 13 | 19 | 36 | 26 | 18 | 6 | 39 | 43 | 0 | 56 | 28 | 34 | 19 | 65 | 63 | 76 | 104 | 37 |
| 8 | 1240010380531 | 19 | 20 | 21 | 28 | 31 | 34 | 20 | 25 | 17 | 27 | 25 | 23 | 62 | 35 | 29 | 32 | 27 | 21 |
| 9 | 1240010397273 | 0 | 20 | 18 | 31 | 50 | 36 | 49 | 36 | 28 | 26 | 82 | 26 | 44 | 22 | 26 | 65 | 37 | 37 |
| 10 | 1240012018299 | 5 | 17 | 15 | 26 | 19 | 21 | 34 | 25 | 35 | 38 | 64 | 37 | 40 | 41 | 65 | 41 | 26 | 64 |
| 11 | 1260012362158 | 2 | 28 | 12 | 23 | 59 | 93 | 67 | 46 | 22 | 28 | 11 | 12 | 20 | 72 | 44 | 30 | 58 | 44 |
| 12 | 1290010377289 | 13 | 10 | 34 | 25 | 19 | 35 | 50 | 50 | 15 | 35 | 35 | 43 | 29 | 180 | 26 | 25 | 23 | 24 |
| 13 | 1430010403750 | 6 | 34 | 25 | 29 | 26 | 11 | 25 | 12 | 48 | 36 | 64 | 18 | 113 | 52 | 7 | 41 | 27 | 13 |
| 14 | 1440012156014 | 9 | 11 | 20 | 20 | 17 | 14 | 19 | 37 | 10 | 22 | 26 | 22 | 63 | 23 | 53 | 40 | 36 | 30 |
| 15 | 2350011996319 | 0 | 10 | 16 | 25 | 10 | 19 | 28 | 56 | 45 | 50 | 16 | 30 | 16 | 36 | 95 | 30 | 54 | 22 |
| 16 | 2510219083070 | 0 | 0 | 64 | 0 | 53 | 80 | 46 | 0 | 0 | 0 | 35 | 35 | 23 | 31 | 30 | 114 | 0 | 42 |
| 17 | 2520000893773 | 0 | 18 | 51 | 68 | 39 | 58 | 35 | 37 | 77 | 66 | 92 | 97 | 48 | 53 | 121 | 79 | 79 | 37 |
| 18 | 2520004507502 | 0 | 1 | 38 | 41 | 33 | 30 | 30 | 66 | 50 | 38 | 15 | 30 | 52 | 50 | 15 | 34 | 19 | 25 |
| 19 | 2520011173010 | 12 | 16 | 33 | 37 | 58 | 42 | 34 | 56 | 156 | 63 | 46 | 45 | 26 | 53 | 66 | 59 | 82 | 61 |
| 20 | 2520011343891 | 0 | 22 | 8 | 33 | 58 | 39 | 6 | 22 | 22 | 66 | 56 | 106 | 124 | 77 | 139 | 105 | 92 | 88 |
| 21 | 2520011441528 | 0 | 23 | 25 | 48 | 77 | 44 | 52 | 65 | 59 | 69 | 41 | 11 | 57 | 49 | 39 | 41 | 30 | 60 |
| 22 | 2520011448667 | 3 | 0 | 18 | 0 | 70 | 79 | 7 | 89 | 0 | 62 | 44 | 39 | 23 | 28 | 40 | 7 | 43 | 55 |
| 23 | 2520011787149 | 0 | 42 | 12 | 0 | 82 | 93 | 96 | 38 | 158 | 98 | 38 | 21 | 69 | 21 | 139 | 163 | 0 | 133 |
| 24 | 2530004385150 | 0 | 0 | 0 | 33 | 0 | 0 | 0 | 58 | 67 | 61 | 14 | 21 | 10 | 8 | 17 | 13 | 14 | 23 |
| 25 | 2530004385156 | 0 | 0 | 11 | 0 | 0 | 25 | 63 | 45 | 35 | 12 | 0 | 55 | 0 | 33 | 35 | 17 | 21 | 30 |
| 26 | 2530011418617 | 0 | 0 | 8 | 71 | 41 | 57 | 0 | 0 | 51 | 57 | 6 | 0 | 78 | 68 | 63 | 71 | 75 | 34 |
| 27 | 2530012014816 | 0 | 0 | 0 | 56 | 39 | 67 | 48 | 45 | 55 | 78 | 80 | 71 | 33 | 117 | 118 | 44 | 59 | 0 |
| 28 | 2815001780268 | 0 | 17 | 33 | 55 | 85 | 88 | 42 | 110 | 139 | 110 | 20 | 36 | 97 | 47 | 89 | 126 | 151 | 184 |
| 29 | 2815011357475 | 10 | 13 | 25 | 44 | 15 | 35 | 25 | 37 | 30 | 63 | 110 | 24 | 19 | 52 | 19 | 9 | 5 | 13 |
| 30 | 2815011408799 | 8 | 14 | 60 | 42 | 95 | 87 | 88 | 78 | 101 | 96 | 62 | 77 | 106 | 85 | 138 | 115 | 164 | 91 |
| 31 | 2815011650478 | 0 | 25 | 8 | 21 | 57 | 55 | 131 | 53 | 113 | 86 | 65 | 118 | 72 | 51 | 0 | 98 | 99 | 62 |
| 32 | 2815011867251 | 11 | 18 | 40 | 69 | 66 | 23 | 78 | 108 | 89 | 80 | 103 | 135 | 120 | 117 | 91 | 162 | 168 | 235 |
| 33 | 2990001184942 | 0 | 25 | 10 | 61 | 62 | 65 | 25 | 20 | 61 | 29 | 53 | 45 | 25 | 100 | 9 | 20 | 216 | 181 |
| 34 | 5820008920622 | 7 | 13 | 35 | 25 | 19 | 23 | 18 | 17 | 41 | 48 | 54 | 33 | 54 | 48 | 32 | 22 | 26 | 52 |
| 35 | 5820009303725 | 8 | 14 | 36 | 35 | 28 | 25 | 26 | 34 | 38 | 38 | 22 | 21 | 56 | 49 | 44 | 28 | 22 | 63 |
| 36 | 5820010692638 | 7 | 18 | 15 | 31 | 21 | 20 | 31 | 36 | 19 | 27 | 26 | 26 | 25 | 29 | 24 | 26 | 27 | 30 |
| 37 | 5820012705099 | 7 | 12 | 17 | 25 | 13 | 19 | 65 | 9 | 11 | 36 | 39 | 28 | 25 | 35 | 24 | 18 | 38 | 30 |
| 38 | 5820012868792 | 6 | 13 | 20 | 29 | 39 | 36 | 48 | 38 | 32 | 60 | 45 | 37 | 46 | 42 | 37 | 53 | 45 | 31 |
| 39 | 5820013652725 | 6 | 13 | 12 | 11 | 15 | 14 | 13 | 15 | 25 | 16 | 16 | 13 | 24 | 16 | 18 | 19 | 29 | 22 |
| 40 | 5830011385787 | 6 | 9 | 8 | 13 | 10 | 12 | 15 | 19 | 20 | 16 | 14 | 12 | 10 | 18 | 15 | 17 | 13 | 16 |
| 41 | 5895010655044 | 6 | 19 | 18 | 28 | 27 | 14 | 32 | 18 | 20 | 26 | 25 | 27 | 27 | 34 | 30 | 27 | 25 | 25 |
| 42 | 5895013343164 | 7 | 15 | 17 | 29 | 36 | 22 | 54 | 62 | 38 | 45 | 24 | 18 | 32 | 37 | 22 | 37 | 23 | 19 |
| 43 | 5895013393686 | 9 | 20 | 14 | 15 | 9 | 24 | 13 | 15 | 33 | 15 | 18 | 8 | 8 | 36 | 14 | 11 | 10 | 16 |
| 44 | 5985010504869 | 15 | 17 | 35 | 37 | 26 | 18 | 11 | 28 | 22 | 33 | 30 | 34 | 40 | 28 | 43 | 35 | 33 | 19 |
| 45 | 5996011863699 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 16 | 21 | 14 | 55 | 33 | 45 | 34 | 28 |
| 46 | 5998012545859 | 13 | 21 | 41 | 46 | 39 | 29 | 35 | 36 | 36 | 27 | 47 | 43 | 16 | 152 | 15 | 30 | 2 | 17 |
| 47 | 5998012602527 | 0 | 25 | 0 | 13 | 71 | 78 | 0 | 0 | 0 | 47 | 75 | 34 | 31 | 53 | 27 | 40 | 85 | 0 |
| 48 | 5998013581187 | 0 | 0 | 54 | 55 | 76 | 71 | 85 | 143 | 96 | 88 | 45 | 16 | 52 | 183 | 77 | 71 | 32 | 17 |
| 49 | 5999010659011 | 17 | 24 | 31 | 57 | 37 | 112 | 86 | 32 | 84 | 77 | 28 | 61 | 83 | 54 | 46 | 38 | 41 | 32 |
| 50 | 5999010661352 | 0 | 24 | 28 | 71 | 56 | 68 | 95 | 83 | 65 | 60 | 50 | 44 | 53 | 46 | 65 | 48 | 39 | 38 |
| 51 | 5999012401249 | 0 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 17 | 13 | 0 | 12 | 0 |
| 52 | 6150011029170 | 0 | 29 | 40 | 45 | 23 | 34 | 0 | 59 | 34 | 45 | 21 | 25 | 46 | 52 | 59 | 11 | 21 | 32 |

# APPENDIX A - RCT DATA

| ITEM NO | 12-MONTH AVG RCT FOR EACH NSN | MAR 97 | APR 97 | MAY 97 | JUN 97 | JUL 97 | AUG 97 | SEP 97 |
|---|---|---|---|---|---|---|---|---|
| 1 | 1005011643558 | 32 | 36 | 38 | 39 | 40 | 41 | 39 |
| 2 | 1005012148884 | 23 | 24 | 25 | 27 | 30 | 30 | 31 |
| 3 | 1010012579961 | 45 | 45 | 44 | 42 | 43 | 35 | 31 |
| 4 | 1010012579962 | 33 | 34 | 34 | 33 | 27 | 28 | 28 |
| 5 | 1010012589660 | 31 | 31 | 31 | 30 | 28 | 27 | 25 |
| 6 | 1010012589661 | 55 | 55 | 59 | 56 | 52 | 48 | 45 |
| 7 | 1015011656212 | 26 | 27 | 31 | 33 | 37 | 44 | 47 |
| 8 | 1240010380531 | 24 | 28 | 29 | 30 | 30 | 30 | 29 |
| 9 | 1240010397273 | 33 | 37 | 37 | 38 | 41 | 40 | 40 |
| 10 | 1240012018299 | 28 | 31 | 33 | 37 | 38 | 39 | 42 |
| 11 | 1260012362158 | 34 | 35 | 39 | 41 | 42 | 42 | 38 |
| 12 | 1290010377289 | 30 | 31 | 46 | 45 | 45 | 45 | 44 |
| 13 | 1430010403750 | 28 | 37 | 38 | 37 | 38 | 38 | 38 |
| 14 | 1440012156014 | 19 | 23 | 24 | 27 | 29 | 30 | 32 |
| 15 | 2350011996319 | 26 | 27 | 29 | 36 | 36 | 40 | 40 |
| 16 | 2510219083070 | 26 | 28 | 31 | 28 | 37 | 33 | 30 |
| 17 | 2520000893773 | 53 | 57 | 60 | 66 | 67 | 70 | 68 |
| 18 | 2520004507502 | 31 | 35 | 39 | 37 | 37 | 36 | 35 |
| 19 | 2520011173010 | 50 | 51 | 54 | 57 | 59 | 60 | 62 |
| 20 | 2520011343891 | 36 | 47 | 51 | 62 | 68 | 71 | 75 |
| 21 | 2520011441528 | 43 | 48 | 50 | 51 | 50 | 46 | 48 |
| 22 | 2520011448667 | 34 | 36 | 38 | 40 | 40 | 38 | 36 |
| 23 | 2520011787149 | 56 | 62 | 60 | 71 | 85 | 78 | 81 |
| 24 | 2530004385150 | 21 | 22 | 23 | 24 | 22 | 24 | 25 |
| 25 | 2530004385156 | 20 | 20 | 23 | 25 | 27 | 28 | 29 |
| 26 | 2530011418617 | 24 | 31 | 36 | 41 | 41 | 44 | 42 |
| 27 | 2530012014816 | 45 | 48 | 57 | 67 | 66 | 68 | 62 |
| 28 | 2815001780268 | 61 | 69 | 72 | 76 | 82 | 88 | 96 |
| 29 | 2815011357475 | 36 | 37 | 40 | 39 | 36 | 36 | 34 |
| 30 | 2815011408799 | 67 | 75 | 81 | 88 | 94 | 100 | 100 |
| 31 | 2815011650478 | 61 | 67 | 69 | 68 | 75 | 78 | 79 |
| 32 | 2815011867251 | 68 | 78 | 86 | 90 | 98 | 106 | 124 |
| 33 | 2990001184942 | 38 | 40 | 46 | 46 | 43 | 56 | 65 |
| 34 | 5820008920622 | 28 | 32 | 35 | 34 | 34 | 35 | 37 |
| 35 | 5820009303725 | 27 | 31 | 34 | 35 | 34 | 33 | 37 |
| 36 | 5820010692638 | 23 | 25 | 25 | 26 | 26 | 26 | 27 |
| 37 | 5820012705099 | 23 | 25 | 27 | 27 | 27 | 29 | 30 |
| 38 | 5820012868792 | 33 | 37 | 39 | 41 | 43 | 43 | 43 |
| 39 | 5820013652725 | 14 | 16 | 16 | 16 | 17 | 18 | 19 |
| 40 | 5830011385787 | 13 | 13 | 14 | 15 | 15 | 15 | 15 |
| 41 | 5895010655044 | 21 | 23 | 25 | 26 | 25 | 25 | 26 |
| 42 | 5895013343164 | 31 | 33 | 35 | 35 | 35 | 34 | 34 |
| 43 | 5895013393686 | 16 | 16 | 17 | 17 | 17 | 17 | 16 |
| 44 | 5985010504869 | 25 | 28 | 28 | 29 | 29 | 30 | 30 |
| 45 | 5996011863699 | 5 | 6 | 11 | 14 | 17 | 20 | 22 |
| 46 | 5998012545859 | 34 | 35 | 45 | 43 | 42 | 39 | 38 |
| 47 | 5998012602527 | 29 | 31 | 33 | 36 | 38 | 39 | 33 |
| 48 | 5998013581187 | 61 | 65 | 80 | 82 | 83 | 80 | 75 |
| 49 | 5999010659011 | 54 | 59 | 62 | 63 | 62 | 62 | 55 |
| 50 | 5999010661352 | 54 | 58 | 60 | 63 | 61 | 60 | 57 |
| 51 | 5999012401249 | 2 | 2 | 3 | 4 | 3 | 4 | 4 |
| 52 | 6150011029170 | 30 | 33 | 35 | 37 | 34 | 34 | 34 |

71

# APPENDIX A - OST DATA

| ITEM NO | NSN | CUST ORDER | DEPOT SHIP | CUST RECPT | ITEM TRANSIT | GROUND CUST OST | PREMIUM CUST OST |
|---|---|---|---|---|---|---|---|
| 1 | 1005011643558 | 97029 | 97044 | 97052 | 8 | 23 | 16 |
| | | 97049 | 97066 | 97100 | 34 | 51 | 18 |
| | | 97059 | 97084 | 97091 | 7 | 32 | 26 |
| | | 97070 | 97097 | 97105 | 8 | 35 | 28 |
| | | 97070 | 97084 | 97091 | 7 | 21 | 15 |
| | | 97078 | 97097 | 97106 | 9 | 28 | 20 |
| | | 97079 | 97092 | 97101 | 9 | 22 | 14 |
| | | 97079 | 97092 | 97101 | 9 | 22 | 14 |
| | | 97079 | 97092 | 97101 | 9 | 22 | 14 |
| | | 97080 | 97106 | 97113 | 7 | 33 | 27 |
| | | 97080 | 97105 | 97112 | 7 | 32 | 26 |
| | | 97092 | 97105 | 97112 | 7 | 180 | 174 |
| | | 97111 | 97133 | 97142 | 9 | 31 | 23 |
| | | 97114 | 97125 | 97133 | 8 | 19 | 12 |
| | | 97139 | 97143 | 97155 | 12 | 16 | 5 |
| | | 97168 | 97177 | 97183 | 6 | 15 | 10 |
| | | 97183 | 97203 | 97211 | 8 | 28 | 21 |
| | | 97197 | 97211 | 97232 | 21 | 35 | 15 |
| | | 97224 | 97241 | 97268 | 27 | 44 | 18 |
| | | 97234 | 97241 | 97268 | 27 | 34 | 8 |
| | | 97260 | 97266 | 97272 | 6 | 12 | 7 |
| 2 | 1005012148884 | 97064 | 97099 | 97105 | 6 | 41 | 36 |
| | | 97073 | 97084 | 97091 | 7 | 55 | 49 |
| | | 97076 | 97091 | 97098 | 7 | 22 | 16 |
| | | 97077 | 97099 | 97105 | 6 | 28 | 23 |
| | | 97079 | 97091 | 97098 | 7 | 19 | 13 |
| | | 97079 | 97080 | 97086 | 6 | 7 | 2 |
| | | 97079 | 97090 | 97094 | 4 | 15 | 12 |
| | | 97115 | 97127 | 97133 | 6 | 18 | 13 |
| | | 97120 | 97127 | 97133 | 6 | 13 | 8 |
| | | 97163 | 97174 | 97178 | 4 | 15 | 12 |
| | | 97174 | 97192 | 97195 | 3 | 21 | 19 |
| | | 97175 | 97192 | 97195 | 3 | 20 | 18 |
| | | 97182 | 97192 | 97195 | 3 | 13 | 11 |
| | | 97183 | 97199 | 97206 | 7 | 23 | 17 |
| | | 97183 | 97199 | 97206 | 7 | 23 | 17 |
| | | 97183 | 97199 | 97206 | 7 | 23 | 17 |
| | | 97183 | 97199 | 97206 | 7 | 23 | 17 |
| | | 97231 | 97234 | 97237 | 3 | 6 | 4 |
| | | 97232 | 97241 | 97251 | 10 | 19 | 10 |
| | | 97232 | 97241 | 97251 | 10 | 19 | 10 |
| | | 97247 | 97253 | 97261 | 8 | 102 | 95 |
| | | 97248 | 97255 | 97261 | 6 | 13 | 8 |
| | | 97253 | 97259 | 97268 | 9 | 15 | 7 |
| 3 | 1010012579961 | 97028 | 97066 | 97072 | 6 | 44 | 39 |
| | | 97028 | 97219 | 97224 | 5 | 196 | 192 |
| | | 97028 | 97051 | 97056 | 5 | 28 | 24 |
| | | 97028 | 97051 | 97056 | 5 | 28 | 24 |
| 4 | 1010012579962 | 97022 | 97037 | 97042 | 5 | 20 | 16 |
| 5 | 1010012589660 | 97022 | 97030 | 97035 | 5 | 13 | 9 |
| | | 97056 | 97070 | 97078 | 8 | 22 | 15 |
| | | 97056 | 97070 | 97078 | 8 | 22 | 15 |
| 6 | 1010012589661 | 96263 | 97198 | 97204 | 6 | 306 | 301 |

72

# APPENDIX A - OST DATA

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 96263 | 97198 | 97205 | 7 | 307 | 301 |
| | | 96263 | 97198 | 97205 | 7 | 307 | 301 |
| | | 97030 | 97198 | 97205 | 7 | 175 | 169 |
| 7 | 1015011656212 | 97030 | 97044 | 97050 | 6 | 20 | 15 |
| | | 97059 | 97072 | 97077 | 5 | 18 | 14 |
| | | 97064 | 97083 | 97088 | 5 | 24 | 20 |
| | | 97073 | 97084 | 97087 | 3 | 14 | 12 |
| | | 97073 | 97087 | 97091 | 4 | 18 | 15 |
| | | 97079 | 97111 | 97114 | 3 | 35 | 33 |
| | | 97080 | 97120 | 97123 | 3 | 43 | 41 |
| | | 97091 | 97111 | 97114 | 3 | 23 | 21 |
| | | 97092 | 97120 | 97123 | 3 | 31 | 29 |
| 8 | 1240010380531 | 97175 | 97183 | 97189 | 6 | 14 | 9 |
| | | 97183 | 97197 | 97200 | 3 | 17 | 15 |
| | | 97196 | 97226 | 97234 | 8 | 38 | 31 |
| 9 | 1240010397273 | 97030 | 97043 | 97052 | 9 | 22 | 14 |
| | | 97195 | 97267 | 97272 | 5 | 77 | 73 |
| 10 | 1240012018299 | 97044 | 97052 | 97056 | 4 | 12 | 9 |
| | | 97051 | 97080 | 97088 | 8 | 37 | 30 |
| | | 97108 | 97135 | 97141 | 6 | 33 | 28 |
| 11 | 1260012362158 | 96268 | 96173 | 97078 | 270 | 810 | 541 |
| | | 97101 | 97129 | 97143 | 14 | 42 | 29 |
| | | 97233 | 97257 | 97269 | 12 | 36 | 25 |
| 12 | 1290010377289 | 97129 | 97141 | 97148 | 7 | 19 | 13 |
| | | 97139 | 97150 | 97155 | 5 | 16 | 12 |
| | | 97183 | 97191 | 97198 | 7 | 15 | 9 |
| 13 | 1430010403750 | 97024 | 97052 | 97059 | 7 | 35 | 29 |
| | | 96229 | 97036 | 97042 | 6 | 178 | 173 |
| | | 96274 | 97044 | 97050 | 6 | 141 | 136 |
| | | 97009 | 97041 | 97086 | 45 | 77 | 33 |
| | | 97034 | 97049 | 97052 | 3 | 18 | 16 |
| | | 97035 | 97084 | 97086 | 2 | 51 | 50 |
| | | 97052 | 97084 | 97086 | 2 | 34 | 33 |
| | | 97066 | 97084 | 97087 | 3 | 21 | 19 |
| | | 97073 | 97084 | 97087 | 3 | 14 | 12 |
| | | 97183 | 97216 | 97220 | 4 | 37 | 34 |
| | | 97183 | 97216 | 97220 | 4 | 37 | 34 |
| | | 97199 | 97216 | 97220 | 4 | 21 | 18 |
| | | 97233 | 97252 | 97255 | 3 | 47 | 45 |
| | | 97266 | 97288 | 97293 | 5 | 27 | 23 |
| | | 97281 | 97294 | 97300 | 6 | 19 | 14 |
| 14 | 1440012156014 | 96325 | 97202 | 97205 | 3 | 245 | 243 |
| | | 96351 | 97202 | 97205 | 3 | 219 | 217 |
| | | 96351 | 97224 | 97232 | 8 | 246 | 239 |
| | | 96351 | 97202 | 97205 | 3 | 219 | 217 |
| | | 96351 | 97224 | 97232 | 8 | 246 | 239 |
| | | 96351 | 97202 | 97205 | 3 | 219 | 217 |
| | | 96351 | 97202 | 97205 | 3 | 219 | 217 |
| | | 96351 | 97202 | 97205 | 3 | 219 | 217 |
| | | 96351 | 97202 | 97205 | 3 | 219 | 217 |
| | | 96351 | 97202 | 97205 | 3 | 219 | 217 |
| | | 96351 | 97202 | 97205 | 3 | 219 | 217 |
| | | 97035 | 97224 | 97232 | 8 | 197 | 190 |
| 15 | 2350011996319 | 97175 | 97182 | 97189 | 7 | 14 | 8 |
| | | 97234 | 97245 | 97248 | 3 | 14 | 12 |
| | | 97260 | 97273 | 97281 | 8 | 21 | 14 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 16 | 2510219083070 | 97030 | 97049 | 97051 | 2 | 21 | 20 |
| | | 97059 | 97065 | 97071 | 6 | 12 | 7 |
| | | 97059 | 97101 | 97106 | 5 | 47 | 43 |
| | | 97062 | 97101 | 97106 | 5 | 44 | 40 |
| | | 97066 | 97076 | 97079 | 3 | 13 | 11 |
| | | 97066 | 97076 | 97079 | 3 | 13 | 11 |
| | | 97066 | 97076 | 97079 | 3 | 34 | 32 |
| | | 97114 | 97128 | 97133 | 5 | 19 | 15 |
| | | 97183 | 97198 | 97204 | 6 | 21 | 16 |
| | | 97183 | 97198 | 97204 | 6 | 21 | 16 |
| 17 | 2520000893773 | 96303 | 97101 | 97112 | 11 | 174 | 164 |
| | | 96310 | 97111 | 97123 | 12 | 178 | 167 |
| | | 96310 | 97176 | 97198 | 22 | 253 | 232 |
| | | 96353 | 97219 | 97239 | 20 | 251 | 232 |
| | | 97036 | 97063 | 97074 | 11 | 38 | 28 |
| 18 | 2520004507502 | 96337 | 97013 | 97042 | 29 | 70 | 42 |
| | | 96340 | 97013 | 97042 | 29 | 67 | 39 |
| | | 96340 | 97013 | 97042 | 29 | 67 | 39 |
| | | 96354 | 97038 | 97043 | 5 | 54 | 50 |
| | | 97223 | 97240 | 97246 | 6 | 23 | 18 |
| | | 97254 | 97275 | 97280 | 5 | 26 | 22 |
| | | 97260 | 97275 | 97280 | 5 | 20 | 16 |
| 19 | 2520011173010 | 97073 | 97086 | 97098 | 12 | 156 | 145 |
| | | 97115 | 97128 | 97130 | 2 | 15 | 14 |
| | | 97170 | 97182 | 97195 | 13 | 25 | 13 |
| | | 97238 | 97248 | 97253 | 5 | 15 | 11 |
| 20 | 2520011343891 | 96268 | 97055 | 97057 | 2 | 154 | 153 |
| | | 97195 | 97240 | 97241 | 1 | 46 | 46 |
| 21 | 2520011441528 | 97093 | 97113 | 97115 | 2 | 22 | 21 |
| | | 97115 | 97128 | 97130 | 2 | 15 | 14 |
| | | 97156 | 97177 | 97183 | 6 | 27 | 22 |
| | | 97168 | 97177 | 97183 | 6 | 15 | 10 |
| 22 | 2520011448667 | 97156 | 97168 | 97171 | 3 | 15 | 13 |
| | | 97168 | 97183 | 97199 | 16 | 31 | 16 |
| | | 97175 | 97190 | 97195 | 5 | 20 | 16 |
| | | 97234 | 97247 | 97252 | 5 | 18 | 14 |
| 23 | 2520011787149 | 97050 | 97064 | 97071 | 7 | 21 | 15 |
| 24 | 2530004385150 | 96269 | 97161 | 97163 | 2 | 259 | 258 |
| | | 96312 | 97161 | 97163 | 2 | 216 | 215 |
| | | 96330 | 97168 | 97171 | 3 | 207 | 205 |
| | | 96351 | 97161 | 97163 | 2 | 177 | 176 |
| | | 96351 | 97161 | 97163 | 2 | 177 | 176 |
| | | 97056 | 97161 | 97163 | 2 | 107 | 106 |
| | | 97087 | 97161 | 97163 | 2 | 76 | 75 |
| | | 97087 | 97161 | 97163 | 2 | 76 | 75 |
| 25 | 2530004385156 | 96290 | 97176 | 97195 | 19 | 270 | 252 |
| | | 96298 | 97176 | 97195 | 19 | 262 | 244 |
| | | 97223 | 97265 | 97268 | 3 | 45 | 43 |
| 26 | 2530011418617 | 96214 | 97063 | 97071 | 8 | 222 | 215 |
| | | 97036 | 97063 | 97065 | 2 | 22 | 21 |
| | | 97104 | 97161 | 97163 | 2 | 59 | 58 |
| | | 97104 | 97171 | 97178 | 7 | 74 | 68 |
| 27 | 2530012014816 | 97114 | 97132 | 97135 | 3 | 21 | 19 |
| | | 97114 | 97132 | 97135 | 3 | 21 | 19 |
| | | 97125 | 97134 | 97140 | 6 | 15 | 10 |
| | | 97125 | 97134 | 97140 | 6 | 15 | 10 |

74

| | | | | | 6 | 16 | 11 |
|---|---|---|---|---|---|---|---|
| | | 97210 | 97220 | 97226 | 6 | 16 | 11 |
| | | 97234 | 97247 | 97253 | 26 | 34 | 9 |
| | | 97248 | 97258 | 97262 | 4 | 14 | 11 |
| | | 97260 | 97281 | 97288 | 7 | 28 | 22 |
| | | 97262 | 97282 | 97289 | 7 | 27 | 21 |
| | | 97266 | 97281 | 97288 | 7 | 22 | 16 |
| | | 97281 | 97294 | 97297 | 3 | 16 | 14 |
| 28 | 2815001780268 | 97016 | 97045 | 97060 | 15 | 44 | 30 |
| | | 97254 | 97261 | 97265 | 4 | 11 | 8 |
| 29 | 2815011357475 | 97260 | 97275 | 97280 | 5 | 20 | 16 |
| 30 | 2815011408799 | 97049 | 97072 | 97074 | 2 | 25 | 24 |
| | | 97161 | 97181 | 97224 | 43 | 63 | 21 |
| | | 97240 | 97252 | 97258 | 6 | 18 | 13 |
| 31 | 2815011650478 | 96290 | 97021 | 97042 | 21 | 117 | 97 |
| 32 | 2815011867251 | 97262 | 97297 | 97302 | 5 | 40 | 36 |
| 33 | 2990001184942 | 97240 | 97253 | 97255 | 2 | 15 | 14 |
| 34 | 5820008920622 | 96263 | 96360 | 97044 | 49 | 146 | 98 |
| | | 96263 | 97005 | 97059 | 54 | 161 | 108 |
| | | 96303 | 97017 | 97057 | 40 | 119 | 80 |
| | | 96347 | 97033 | 97059 | 26 | 77 | 52 |
| | | 97009 | 97032 | 97044 | 12 | 35 | 24 |
| 35 | 5820009303725 | 97085 | 97094 | 97113 | 19 | 28 | 10 |
| 36 | 5820010692638 | 97010 | 97028 | 97038 | 10 | 28 | 19 |
| | | 97013 | 97025 | 97038 | 13 | 25 | 13 |
| 37 | 5820012705099 | 97210 | 97219 | 97224 | 5 | 14 | 10 |
| | | 97210 | 97227 | 97234 | 7 | 24 | 18 |
| | | 97053 | 97073 | 97081 | 8 | 28 | 21 |
| 38 | 5820012868792 | 97009 | 97032 | 97044 | 12 | 35 | 24 |
| | | 97014 | 97034 | 97044 | 10 | 30 | 21 |
| | | 97014 | 97034 | 97044 | 10 | 30 | 21 |
| 39 | 5820013652725 | 96255 | 96988 | 97038 | 50 | 148 | 99 |
| 40 | 5830011385787 | 97034 | 97038 | 97043 | 5 | 9 | 5 |
| | | 97154 | 97175 | 97190 | 15 | 36 | 22 |
| 41 | 5895010655044 | 97053 | 97063 | 97079 | 16 | 26 | 11 |
| 42 | 5895013343164 | 97210 | 97240 | 97251 | 11 | 41 | 31 |
| 43 | 5895013393686 | 97057 | 97067 | 97077 | 10 | 20 | 11 |
| | | 97079 | 97098 | 97101 | 3 | 22 | 20 |
| | | 97079 | 97092 | 97098 | 17 | 59 | 43 |
| | | 97206 | 97294 | 97297 | 3 | 91 | 89 |
| | | 97210 | 97294 | 97297 | 3 | 87 | 85 |
| | | 97254 | 97289 | 97294 | 5 | 40 | 36 |
| | | 97260 | 97294 | 97297 | 3 | 37 | 35 |
| | | 97287 | 97297 | 97302 | 5 | 15 | 11 |
| 44 | 5985010504869 | 96347 | 97023 | 97044 | 21 | 62 | 42 |
| 45 | 5996011863699 | 97197 | 97247 | 97252 | 5 | 55 | 51 |
| | | 97197 | 97247 | 97252 | 5 | 55 | 51 |
| 46 | 5998012545859 | 97274 | 97296 | 97302 | 6 | 28 | 23 |
| | | 97281 | 97296 | 97301 | 5 | 20 | 16 |
| 47 | 5998012602527 | 97206 | 97213 | 97218 | 5 | 12 | 8 |
| 48 | 5998013581187 | 97136 | 97171 | 97182 | 11 | 46 | 36 |
| 49 | 5999010659011 | 97078 | 97094 | 97099 | 5 | 21 | 17 |
| | | 97053 | 97059 | 97070 | 11 | 17 | 7 |
| 50 | 5999010661352 | 97030 | 97038 | 97043 | 5 | 13 | 9 |
| | | 97058 | 97072 | 97077 | 5 | 19 | 15 |
| | | 97058 | 97072 | 97077 | 116 | 297 | 182 |
| | | 97101 | 97113 | 97116 | 3 | 197 | 195 |

75

## APPENDIX A - OST DATA

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 97148 | 97154 | 97157 | 3 | 9 | 7 |
| | | 97175 | 97202 | 97205 | 3 | 30 | 28 |
| 51 | 5999012401249 | 97069 | 97108 | 97113 | 5 | 44 | 40 |
| | | 97129 | 97175 | 97178 | 6 | 16 | 11 |
| | | 97154 | 97175 | 97178 | 3 | 24 | 22 |
| 52 | 6150011029170 | 97129 | 97183 | 97190 | 7 | 165 | 159 |

## APPENDIX A - INVENTORY SAVINGS

| | | COST OF INVENTORY | | | | | MONTHLY INCREMENTAL INVENTORY SAVINGS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

| ITEM NO | NSN | GROUND RO | PREMIUM RO | CHANGE TO RO | U/P | T/P | INV | OBSOL | OTHER | STOR | | INVENTORY HOLDING SAVINGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1005011643558 | 127 | 125 | 2 | 37.26 | 74.52 | 0.62 | 0.09 | 0.56 | 0.06 | = | 1.33 |
| 2 | 1005012148884 | 27 | 27 | 0 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 3 | 1010012579961 | 17 | 17 | 0 | 2659.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 4 | 1010012579962 | 9 | 9 | 0 | 2388.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 5 | 1010012589660 | 8 | 8 | 0 | 4516.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 6 | 1010012589661 | 14 | 14 | 0 | 10925.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 7 | 1015011656212 | 17 | 17 | 0 | 2787.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 8 | 1240010380531 | 29 | 28 | 1 | 8191.00 | 8191.00 | 68.26 | 9.56 | 61.71 | 6.83 | = | 146.35 |
| 9 | 1240010397273 | 20 | 20 | 0 | 7324.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 10 | 1240012018299 | 58 | 57 | 1 | 1013.00 | 1013.00 | 8.44 | 1.18 | 7.63 | 0.84 | = | 18.10 |
| 11 | 1260012362158 | 16 | 16 | 0 | 51139.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 12 | 1290010377289 | 12 | 12 | 0 | 2702.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 13 | 1430010403750 | 15 | 15 | 0 | 2539.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 14 | 1440012156014 | 15 | 15 | 0 | 19186.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 15 | 2350011996319 | 30 | 30 | 0 | 4263.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 16 | 2510219083070 | 4 | 4 | 0 | 8365.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 17 | 2520000893773 | 32 | 32 | 0 | 5246.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 18 | 2520004507502 | 20 | 20 | 0 | 415.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 19 | 2520011173010 | 49 | 49 | 0 | 13163.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 20 | 2520011343891 | 25 | 25 | 0 | 33424.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 21 | 2520011441528 | 25 | 25 | 0 | 7603.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 22 | 2520011448667 | 7 | 7 | 0 | 13049.17 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 23 | 2520011787149 | 16 | 16 | 0 | 14719.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 24 | 2530004385150 | 6 | 6 | 0 | 6175.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 25 | 2530004385156 | 15 | 15 | 0 | 5835.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 26 | 2530011418617 | 11 | 11 | 0 | 40403.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 27 | 2530012014816 | 29 | 29 | 0 | 439.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 28 | 2815001780268 | 30 | 30 | 0 | 13833.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 29 | 2815011357475 | 25 | 25 | 0 | 1005.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 30 | 2815011408799 | 86 | 85 | 1 | 52902.10 | 52902.10 | 440.85 | 61.72 | 398.53 | 44.09 | = | 945.18 |
| 31 | 2815011650478 | 32 | 32 | 0 | 36324.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 32 | 2815011867251 | 42 | 42 | 0 | 28091.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 33 | 2990001184942 | 10 | 10 | 0 | 33129.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 34 | 5820008920622 | 88 | 88 | 0 | 7840.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 35 | 5820009303725 | 151 | 151 | 0 | 2122.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 36 | 5820010692638 | 87 | 87 | 0 | 15464.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 37 | 5820012705099 | 22 | 22 | 0 | 23246.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 38 | 5820012868792 | 45 | 44 | 1 | 9833.06 | 9833.06 | 81.94 | 11.47 | 74.08 | 8.19 | = | 175.68 |
| 39 | 5820013652725 | 138 | 132 | 6 | 6838.00 | 41028.00 | 341.90 | 47.87 | 309.08 | 34.19 | = | 733.03 |
| 40 | 5830011385787 | 54 | 54 | 0 | 645.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 41 | 5895010655044 | 37 | 36 | 1 | 5563.34 | 5563.34 | 46.36 | 6.49 | 41.91 | 4.64 | = | 99.40 |
| 42 | 5895013343164 | 42 | 42 | 0 | 1876.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 43 | 5895013393686 | 25 | 25 | 0 | 30937.97 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 44 | 5985010504869 | 33 | 33 | 0 | 4991.88 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 45 | 5996011863699 | 21 | 20 | 1 | 46513.07 | 46513.07 | 387.61 | 54.27 | 350.40 | 38.76 | = | 831.03 |
| 46 | 5998012545859 | 17 | 17 | 0 | 12931.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 47 | 5998012602527 | 6 | 6 | 0 | 3485.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 48 | 5998013581187 | 18 | 18 | 0 | 3704.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 49 | 5999010659011 | 43 | 43 | 0 | 4221.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 50 | 5999010661352 | 60 | 60 | 0 | 2027.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 51 | 5999012401249 | 0 | 0 | 0 | 630.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 52 | 6150011029170 | 12 | 12 | 0 | 2846.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |

2950.11

# APPENDIX A - TRANSPORTATION COSTS

**MONTHLY TRANSPORTATION REQUIREMENT**          **MONTHLY INCREMENTAL TRANSPORTATION COST**

| ITEM NO | NSN | UNIT WEIGHT (LBS) | WASHOUT RATE | PREMIUM RATE | PREMIUM COST | | GROUND RATE | GROUND COST | | TRANSPORTATION COST |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1005011643558 | 7 | 3 | 5.67 | 17.01 | - | 1.94 | 5.81 | = | 11.20 |
| 2 | 1005012148884 | 1 | 2 | 3.50 | 7.00 | - | 0.28 | 0.55 | = | 6.45 |
| 3 | 1010012579961 | 3 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 4 | 1010012579962 | 3 | 1 | 3.57 | 3.57 | - | 0.55 | 0.55 | = | 3.02 |
| 5 | 1010012589660 | 16 | 1 | 11.67 | 11.67 | - | 4.43 | 4.43 | = | 7.24 |
| 6 | 1010012589661 | 1 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 7 | 1015011656212 | 31 | 1 | 22.92 | 22.92 | - | 8.58 | 8.58 | = | 14.34 |
| 8 | 1240010380531 | 24 | 1 | 17.67 | 17.67 | - | 6.64 | 6.64 | = | 11.03 |
| 9 | 1240010397273 | 109 | 1 | 73.00 | 73.00 | - | 29.89 | 29.89 | = | 43.11 |
| 10 | 1240012018299 | 1 | 1 | 3.45 | 3.45 | - | 0.00 | 0.00 | = | 3.45 |
| 11 | 1260012362158 | 22 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 12 | 1290010377289 | 11 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 13 | 1430010403750 | 2 | 1 | 3.57 | 3.57 | - | 0.55 | 0.55 | = | 3.02 |
| 14 | 1440012156014 | 73 | 1 | 53.67 | 53.67 | - | 19.93 | 19.93 | = | 33.74 |
| 15 | 2350011996319 | 21 | 1 | 15.42 | 15.42 | - | 5.81 | 5.81 | = | 9.61 |
| 16 | 2510219083070 | 0 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 17 | 2520000893773 | 1000 | 1 | 830.00 | 830.00 | - | 163.46 | 163.46 | = | 666.54 |
| 18 | 2520004507502 | 390 | 1 | 327.60 | 327.60 | - | 86.35 | 86.35 | = | 241.25 |
| 19 | 2520011173010 | 1020 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 20 | 2520011343891 | 2875 | 1 | 2,386.25 | 2386.25 | - | 409.98 | 409.98 | = | 1976.28 |
| 21 | 2520011441528 | 1101 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 22 | 2520011448667 | 430 | 1 | 361.20 | 361.20 | - | 94.29 | 94.29 | = | 266.91 |
| 23 | 2520011787149 | 950 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 24 | 2530004385150 | 340 | 1 | 285.60 | 285.60 | - | 75.28 | 75.28 | = | 210.32 |
| 25 | 2530004385156 | 340 | 1 | 285.60 | 285.60 | - | 75.28 | 75.28 | = | 210.32 |
| 26 | 2530011418617 | 34 | 1 | 25.17 | 25.17 | - | 9.41 | 9.41 | = | 15.76 |
| 27 | 2530012014816 | 8 | 1 | 6.42 | 6.42 | - | 2.21 | 2.21 | = | 4.21 |
| 28 | 2815011780268 | 4370 | 1 | 3,627.10 | 3627.10 | - | 609.12 | 609.12 | = | 3017.98 |
| 29 | 2815011357475 | 57 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 30 | 2815011408799 | 3604 | 2 | 2,991.32 | 5982.64 | - | 513.93 | 1027.86 | = | 4954.78 |
| 31 | 2815011650478 | 2500 | 1 | 2,075.00 | 2075.00 | - | 356.50 | 356.50 | = | 1718.50 |
| 32 | 2815011867251 | 3109 | 1 | 2,580.47 | 2580.47 | - | 443.34 | 443.34 | = | 2137.13 |
| 33 | 2990001184942 | 370 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 34 | 5820008920622 | 76 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 35 | 5820009303725 | 13 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 36 | 5820010692638 | 0 | 1 | 3.45 | 3.45 | - | 0.00 | 0.00 | = | 3.45 |
| 37 | 5820012705099 | 13 | 1 | 9.72 | 9.72 | - | 3.60 | 3.60 | = | 6.12 |
| 38 | 5820012868792 | 13 | 1 | 9.72 | 9.72 | - | 3.60 | 3.60 | = | 6.12 |
| 39 | 5820013652725 | 0 | 2 | 3.45 | 6.90 | - | 0.00 | 0.00 | = | 6.90 |
| 40 | 5830011385787 | 4 | 1 | 3.67 | 3.67 | - | 1.11 | 1.11 | = | 2.56 |
| 41 | 5895010655044 | 4 | 1 | 3.67 | 3.67 | - | 1.11 | 1.11 | = | 2.56 |
| 42 | 5895013343164 | 37 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 43 | 5895013393686 | 0 | 1 | 3.45 | 3.45 | - | 0.00 | 0.00 | = | 3.45 |
| 44 | 5985010504869 | 41 | 1 | 30.42 | 30.42 | - | 11.35 | 11.35 | = | 19.07 |
| 45 | 5996011863699 | 55 | 3 | 40.92 | 122.76 | - | 15.22 | 45.67 | = | 77.09 |
| 46 | 5998012545859 | 0 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 47 | 5998012602527 | 0 | 1 | 3.45 | 3.45 | - | 0.00 | 0.00 | = | 3.45 |
| 48 | 5998013581187 | 0 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 49 | 5999010659011 | 0 | 1 | 3.45 | 3.45 | - | 0.00 | 0.00 | = | 3.45 |
| 50 | 5999010661352 | 0 | 1 | 3.45 | 3.45 | - | 0.00 | 0.00 | = | 3.45 |
| 51 | 5999012401249 | 4 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 52 | 6150011029170 | 8 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |

15,703.84

# APPENDIX A - REPAIRABLE TRADEOFF

## MONTHLY INCREMENTAL INVENTORY / TRANSPORTATION TRADEOFF

| ITEM NO | NSN | MONTHLY INVENTORY HOLDING COST | | MONTHLY TRANSPORTATION COST | | MONTHLY TRADEOFF COST |
|---|---|---|---|---|---|---|
| 1 | 1005011643558 | 1.33 | - | 11.20 | = | (9.87) |
| 2 | 1005012148884 | 0.00 | - | 6.45 | = | (6.45) |
| 3 | 1010012579961 | 0.00 | - | 0.00 | = | 0.00 |
| 4 | 1010012579962 | 0.00 | - | 3.02 | = | (3.02) |
| 5 | 1010012589660 | 0.00 | - | 7.24 | = | (7.24) |
| 6 | 1010012589661 | 0.00 | - | 0.00 | = | 0.00 |
| 7 | 1015011656212 | 0.00 | - | 14.34 | = | (14.34) |
| 8 | 1240010380531 | 146.35 | - | 11.03 | = | 135.32 |
| 9 | 1240010397273 | 0.00 | - | 43.11 | = | (43.11) |
| 10 | 1240012018299 | 18.10 | - | 3.45 | = | 14.65 |
| 11 | 1260012362158 | 0.00 | - | 0.00 | = | 0.00 |
| 12 | 1290010377289 | 0.00 | - | 0.00 | = | 0.00 |
| 13 | 1430010403750 | 0.00 | - | 3.02 | = | (3.02) |
| 14 | 1440012156014 | 0.00 | - | 33.74 | = | (33.74) |
| 15 | 2350011996319 | 0.00 | - | 9.61 | = | (9.61) |
| 16 | 2510219083070 | 0.00 | - | 0.00 | = | 0.00 |
| 17 | 2520000893773 | 0.00 | - | 666.54 | = | (666.54) |
| 18 | 2520004507502 | 0.00 | - | 241.25 | = | (241.25) |
| 19 | 2520011173010 | 0.00 | - | 0.00 | = | 0.00 |
| 20 | 2520011343891 | 0.00 | - | 1976.28 | = | (1976.28) |
| 21 | 2520011441528 | 0.00 | - | 0.00 | = | 0.00 |
| 22 | 2520011448667 | 0.00 | - | 266.91 | = | (266.91) |
| 23 | 2520011787149 | 0.00 | - | 0.00 | = | 0.00 |
| 24 | 2530004385150 | 0.00 | - | 210.32 | = | (210.32) |
| 25 | 2530004385156 | 0.00 | - | 210.32 | = | (210.32) |
| 26 | 2530011418617 | 0.00 | - | 15.76 | = | (15.76) |
| 27 | 2530012014816 | 0.00 | - | 4.21 | = | (4.21) |
| 28 | 2815001780268 | 0.00 | - | 3017.98 | = | (3017.98) |
| 29 | 2815011357475 | 0.00 | - | 0.00 | = | 0.00 |
| 30 | 2815011408799 | 945.18 | - | 4954.78 | = | (4009.60) |
| 31 | 2815011650478 | 0.00 | - | 1718.50 | = | (1718.50) |
| 32 | 2815011867251 | 0.00 | - | 2137.13 | = | (2137.13) |
| 33 | 2990001184942 | 0.00 | - | 0.00 | = | 0.00 |
| 34 | 5820008920622 | 0.00 | - | 0.00 | = | 0.00 |
| 35 | 5820009303725 | 0.00 | - | 0.00 | = | 0.00 |
| 36 | 5820010692638 | 0.00 | - | 3.45 | = | (3.45) |
| 37 | 5820012705099 | 0.00 | - | 6.12 | = | (6.12) |
| 38 | 5820012868792 | 175.68 | - | 6.12 | = | 169.56 |
| 39 | 5820013652725 | 733.03 | - | 6.90 | = | 726.13 |
| 40 | 5830011385787 | 0.00 | - | 2.56 | = | (2.56) |
| 41 | 5895010655044 | 99.40 | - | 2.56 | = | 96.84 |
| 42 | 5895013343164 | 0.00 | - | 0.00 | = | 0.00 |
| 43 | 5895013393686 | 0.00 | - | 3.45 | = | (3.45) |
| 44 | 5985010504869 | 0.00 | - | 19.07 | = | (19.07) |
| 45 | 5996011863699 | 831.03 | - | 77.09 | = | 753.95 |
| 46 | 5998012545859 | 0.00 | - | 0.00 | = | 0.00 |
| 47 | 5998012602527 | 0.00 | - | 3.45 | = | (3.45) |
| 48 | 5998013581187 | 0.00 | - | 0.00 | = | 0.00 |
| 49 | 5999010659011 | 0.00 | - | 3.45 | = | (3.45) |
| 50 | 5999010661352 | 0.00 | - | 3.45 | = | (3.45) |
| 51 | 5999012401249 | 0.00 | - | 0.00 | = | 0.00 |
| 52 | 6150011029170 | 0.00 | - | 0.00 | = | 0.00 |
| | | 2950.11 | - | 15703.84 | = | (12753.73) |

# APPENDIX B - CONSUMABLE DESCRIPTIONS

| ITEM NO | NSN | NOMENCLATURE | CEC | SOS | SD | CITY | STATE | PRICE ($) | WEIGHT (LBS) | CUBE (FT) | LENGTH (IN) | WIDTH (IN) | HEIGHT (IN) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2510007368622 | BRACKET AS | 4 | S9C | SAC | MECHANICSBURG | PA | 3.36 | 0.0800 | 0.0060 | 0 | 0 | 0 |
| 2 | 2520011272624 | SHAFT,SPEE | 5 | S9C | SAC | MECHANICSBURG | PA | 17.41 | 0.2000 | 0.0350 | 0 | 0 | 0 |
| 3 | 2520011374843 | SHIELD AND | 5 | S9C | SAC | MECHANICSBURG | PA | 3.73 | 1.3700 | 0.0080 | 0 | 0 | 0 |
| 4 | 2530003401405 | BLEEDER VA | 5 | S9C | SAC | MECHANICSBURG | PA | 0.42 | 0.0200 | 0.0010 | 0 | 0 | 0 |
| 5 | 2530011271677 | VALVE,BRAK | 5 | S9C | SAC | MECHANICSBURG | PA | 117.92 | 0.0100 | 0.0001 | 0 | 0 | 0 |
| 6 | 2540010627132 | DRIVE ADAP | 5 | S9C | SAC | MECHANICSBURG | PA | 1.95 | 0.0100 | 0.0012 | 2 | 1 | 1 |
| 7 | 2540011026863 | COVER,HALF | 5 | S9C | SNC | NEW CUMBERLAND | PA | 13.53 | 0.2000 | 0.0104 | 3 | 3 | 2 |
| 8 | 2540011860969 | MOTOR,WIND | 3 | S9C | SAC | MECHANICSBURG | PA | 207.92 | 3.0000 | 0.1090 | 0 | 0 | 0 |
| 9 | 2590011689871 | CONTROL AS | 5 | S9C | SAC | MECHANICSBURG | PA | 20.64 | 0.0600 | 0.2639 | 19 | 12 | 2 |
| 10 | 2590011905604 | ANNUNCIATO | 5 | S9C | SAC | MECHANICSBURG | PA | 1199.67 | 4.5000 | 0.0960 | 0 | 0 | 0 |
| 11 | 2590012505009 | ROD,RETAIN | 2 | S9C | SAC | MECHANICSBURG | PA | 18.41 | 0.0200 | 0.0050 | 0 | 0 | 0 |
| 12 | 2940005370946 | FILTER ELE | 2 | S9C | SAC | MECHANICSBURG | PA | 1.6 | 0.1000 | 0.0060 | 0 | 0 | 0 |
| 13 | 3040010362989 | CONNECTING | 5 | S9C | SAC | MECHANICSBURG | PA | 18.32 | 0.0000 | 0.0000 | 0 | 0 | 0 |
| 14 | 3040012545288 | SHAFT,SHOU | 5 | S9C | SAC | MECHANICSBURG | PA | 253.91 | 0.0000 | 0.0000 | 0 | 0 | 0 |
| 15 | 3110001014194 | BEARING,RO | 5 | S9I | SAI | MECHANICSBURG | PA | 42.72 | 8.0000 | 0.0660 | 0 | 0 | 0 |
| 16 | 3120011176328 | BUSHING,SL | 5 | S9I | SAI | MECHANICSBURG | PA | 11.98 | 0.0600 | 0.0020 | 0 | 0 | 0 |
| 17 | 3439001321331 | DESOLDERIN | 2 | S9G | SAI | MECHANICSBURG | PA | 6.7 | 0.5500 | 0.0080 | 0 | 0 | 0 |
| 18 | 3439002528352 | ROD,WELDIN | 2 | S9G | SAI | MECHANICSBURG | PA | 2.73 | 1.0100 | 0.0000 | 0 | 0 | 0 |
| 19 | 3740006414719 | SPRAYER,PE | 1 | S9G | SAG | MECHANICSBURG | PA | 136.9 | 11.0000 | 1.3889 | 24 | 10 | 10 |
| 20 | 3805011783177 | CUTTING ED | 5 | S9I | SAC | MECHANICSBURG | PA | 82.48 | 100.0000 | 1.2280 | 0 | 0 | 0 |
| 21 | 3805013644471 | PARTS KIT, | 5 | S9I | SAI | MECHANICSBURG | PA | 142.2 | 2.4000 | 0.3240 | 0 | 0 | 0 |
| 22 | 3895002526896 | REELING MA | 1 | S9I | SAI | MECHANICSBURG | PA | 862.48 | 45.0000 | 24.4444 | 33 | 32 | 40 |
| 23 | 4010001293221 | CHAIN,WELD | 5 | S9G | SAI | MECHANICSBURG | PA | 8.83 | 5.6800 | 0.1250 | 0 | 0 | 0 |
| 24 | 4010005852108 | CHAIN,WELD | 5 | S9G | SAI | MECHANICSBURG | PA | 13.01 | 0.1000 | 0.0023 | 2 | 2 | 1 |
| 25 | 4010011096832 | WIRE ROPE | 5 | S9G | SAG | MECHANICSBURG | PA | 4.5 | 1.7500 | 0.2000 | 0 | 0 | 0 |
| 26 | 4030000019952 | PLUG,WIRE | 5 | S9G | SAG | MECHANICSBURG | PA | 5.94 | 0.2200 | 0.0012 | 2 | 1 | 1 |
| 27 | 4030009487315 | HOOK,CHAIN | 5 | S9G | SNG | NEW CUMBERLAND | PA | 0.16 | 0.0100 | 0.0010 | 0 | 0 | 0 |
| 28 | 4030010446040 | SHACKLE | 5 | S9G | SAI | MECHANICSBURG | PA | 7.84 | 0.1000 | 0.0070 | 0 | 0 | 0 |
| 29 | 4030011420456 | SWAGING SL | 2 | S9G | SAI | MECHANICSBURG | PA | 0.48 | 0.1000 | 0.0010 | 0 | 0 | 0 |
| 30 | 4110009247845 | TRAY,ICE C | 5 | S9I | SAI | MECHANICSBURG | PA | 0.83 | 0.0500 | 0.0060 | 0 | 0 | 0 |
| 31 | 4130001539266 | PANEL,CONT | 5 | S9I | SAI | MECHANICSBURG | PA | 220.23 | 0.0300 | 0.0000 | 0 | 0 | 0 |
| 32 | 4130001938488 | FILTER ELE | 5 | S9I | SAI | MECHANICSBURG | PA | 28.63 | 0.2000 | 0.0250 | 0 | 0 | 0 |
| 33 | 4130009510806 | FILTER ELE | 5 | S9I | SAG | MECHANICSBURG | PA | 8.45 | 2.0000 | 0.0110 | 0 | 0 | 0 |
| 34 | 4320009224933 | COVER ASSE | 5 | S9C | SAC | MECHANICSBURG | PA | 21.7 | 0.2500 | 0.0140 | 0 | 0 | 0 |
| 35 | 4320010981703 | PARTS KIT, | 5 | S9C | SAC | MECHANICSBURG | PA | 11.36 | 0.1300 | 0.0140 | 0 | 0 | 0 |
| 36 | 4330011310279 | PARTS KIT, | 5 | S9C | SAC | MECHANICSBURG | PA | 5.19 | 1.0000 | 0.0700 | 0 | 0 | 0 |
| 37 | 4330011643433 | FILTER ELE | 5 | S9C | SAC | MECHANICSBURG | PA | 20.34 | 2.4000 | 0.1300 | 0 | 0 | 0 |
| 38 | 4330011903579 | FILTER ELE | 3 | S9C | SAC | MECHANICSBURG | PA | 7.38 | 0.4300 | 0.0093 | 4 | 2 | 2 |
| 39 | 4710002000284 | TUBE,METAL | 5 | S9C | SAC | MECHANICSBURG | PA | 0.85 | 1.0000 | 0.0060 | 0 | 0 | 0 |
| 40 | 4710006099779 | TUBE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 22.66 | 0.5000 | 0.2810 | 0 | 0 | 0 |
| 41 | 4710007409477 | TUBE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 10.92 | 1.4900 | 0.7494 | 37 | 7 | 5 |
| 42 | 4710010053330 | TUBE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 35.78 | 0.5000 | 0.0000 | 0 | 0 | 0 |
| 43 | 4710011883516 | TUBE,BENT, | 5 | S9C | SAC | MECHANICSBURG | PA | 8.92 | 0.2400 | 0.1597 | 0 | 0 | 0 |
| 44 | 4710011888780 | TUBE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 5.49 | 1.4900 | 0.5494 | 0 | 0 | 0 |
| 45 | 4710013229315 | TUBE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 35.19 | 8.7600 | 1.3704 | 37 | 8 | 8 |
| 46 | 4720001776157 | HOSE,PREFO | 5 | S9C | SAC | MECHANICSBURG | PA | 6.69 | 1.0200 | 0.1111 | 12 | 4 | 4 |
| 47 | 4720002039658 | HOSE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 10.14 | 0.2500 | 0.0100 | 0 | 0 | 0 |
| 48 | 4720004613796 | HOSE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 364.52 | 54.0000 | 2.5000 | 0 | 0 | 0 |
| 49 | 4720007059542 | HOSE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 289.91 | 1.0000 | 0.0080 | 0 | 0 | 0 |
| 50 | 4720009641433 | TUBING,NON | 5 | S9C | SAC | MECHANICSBURG | PA | 26.2 | 31.0000 | 3.0000 | 0 | 0 | 0 |
| 51 | 4720009770316 | HOSE,PREFO | 5 | S9C | SAC | MECHANICSBURG | PA | 4.96 | 0.2600 | 0.0260 | 0 | 0 | 0 |
| 52 | 4720010673891 | HOSE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 116.7 | 0.0000 | 0.0000 | 0 | 0 | 0 |
| 53 | 4720010889650 | HOSE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 7.84 | 0.1200 | 0.1250 | 0 | 0 | 0 |
| 54 | 4720011233812 | HOSE,NONME | 5 | S9C | SAC | MECHANICSBURG | PA | 6.93 | 0.6300 | 0.0140 | 0 | 0 | 0 |
| 55 | 4720011560549 | HOSE,NONME | 2 | S9C | SAC | MECHANICSBURG | PA | 1.4 | 0.1000 | 0.0030 | 0 | 0 | 0 |
| 56 | 4720011797614 | HOSE ASSEM | 2 | S9C | SAC | MECHANICSBURG | PA | 26.13 | 0.0500 | 0.0180 | 0 | 0 | 0 |
| 57 | 4720011816796 | HOSE,PREFO | 5 | S9C | SAC | MECHANICSBURG | PA | 19.45 | 0.5000 | 0.0310 | 0 | 0 | 0 |
| 58 | 4720011929602 | HOSE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 24.65 | 0.0000 | 0.0000 | 0 | 0 | 0 |
| 59 | 4720012122604 | HOSE,NONME | 5 | S9C | SAC | MECHANICSBURG | PA | 3.62 | 0.1000 | 0.0580 | 0 | 0 | 0 |
| 60 | 4720013252278 | HOSE,NONME | 5 | S9C | SAC | MECHANICSBURG | PA | 59.58 | 0.0100 | 0.0000 | 0 | 0 | 0 |
| 61 | 4730001188546 | ELBOW,TUBE | 5 | S9C | SAC | MECHANICSBURG | PA | 3.92 | 1.0000 | 0.0020 | 0 | 0 | 0 |
| 62 | 4730002028469 | ADAPTER,ST | 4 | S9C | SAC | MECHANICSBURG | PA | 3.16 | 0.3000 | 0.0220 | 0 | 0 | 0 |
| 63 | 4730002660538 | ADAPTER,ST | 4 | S9C | SAC | MECHANICSBURG | PA | 0.34 | 0.0800 | 0.0100 | 0 | 0 | 0 |
| 64 | 4730003962962 | CONNECTOR, | 5 | S9C | SNC | NEW CUMBERLAND | PA | 4.76 | 0.0100 | 0.0010 | 0 | 0 | 0 |
| 65 | 4730004926040 | ADAPTER,ST | 3 | S9C | SAC | MECHANICSBURG | PA | 2.37 | 0.1300 | 0.0012 | 2 | 1 | 1 |
| 66 | 4730005416584 | CLAMP,HOSE | 4 | S9C | SAC | MECHANICSBURG | PA | 0.18 | 0.1000 | 0.0010 | 0 | 0 | 0 |
| 67 | 4730006047953 | PLUG,PIPE | 5 | S9C | SAC | MECHANICSBURG | PA | 0.53 | 0.1000 | 0.0090 | 0 | 0 | 0 |
| 68 | 4730007205002 | REDUCER,PI | 2 | S9C | SAC | MECHANICSBURG | PA | 6.71 | 0.5400 | 0.0020 | 0 | 0 | 0 |
| 69 | 4730008137811 | TEE,PIPE T | 5 | S9C | SAC | MECHANICSBURG | PA | 2.71 | 0.0100 | 0.0010 | 0 | 0 | 0 |
| 70 | 4730010057253 | CLAMP,HOSE | 5 | S9C | SAC | MECHANICSBURG | PA | 0.22 | 0.0100 | 0.0010 | 0 | 0 | 0 |
| 71 | 4730010707680 | ELBOW,PIPE | 5 | S9C | SAC | MECHANICSBURG | PA | 2.02 | 0.1000 | 0.0010 | 0 | 0 | 0 |
| 72 | 4730010836059 | CLAMP,HOSE | 5 | S9C | SAC | MECHANICSBURG | PA | 11.68 | 0.0000 | 0.0000 | 0 | 0 | 0 |
| 73 | 4730010900258 | CLAMP,HOSE | 5 | S9C | SAC | MECHANICSBURG | PA | 0.46 | 0.0100 | 0.0010 | 0 | 0 | 0 |
| 74 | 4730010996474 | PLUG,TUBE | 5 | S9C | SAC | MECHANICSBURG | PA | 4 | 0.1500 | 0.0104 | 3 | 3 | 2 |
| 75 | 4730011173837 | CLAMP,HOSE | 5 | S9C | SNC | NEW CUMBERLAND | PA | 0.76 | 0.0600 | 0.0090 | 0 | 0 | 0 |
| 76 | 4730011196895 | TEE,PIPE T | 5 | S9C | SAC | MECHANICSBURG | PA | 3.36 | 0.3000 | 0.0020 | 0 | 0 | 0 |
| 77 | 4730011340854 | ADAPTER,ST | 5 | S9C | SAC | MECHANICSBURG | PA | 1.06 | 0.0100 | 0.0010 | 0 | 0 | 0 |
| 78 | 4730011549942 | PLUG,PIPE | 5 | S9C | SAC | MECHANICSBURG | PA | 9.46 | 0.5000 | 0.0050 | 0 | 0 | 0 |
| 79 | 4820011589223 | COCK,DRAIN | 4 | S9C | SAC | MECHANICSBURG | PA | 16.52 | 0.0000 | 0.0000 | 0 | 0 | 0 |
| 80 | 4930004707354 | SLEEVE ASS | 5 | S9C | SAC | MECHANICSBURG | PA | 91.35 | 0.0100 | 0.0010 | 0 | 0 | 0 |
| 81 | 5305000213620 | SCREW,CAP, | 2 | S9I | SAI | MECHANICSBURG | PA | 0.09 | 0.0300 | 0.0010 | 0 | 0 | 0 |
| 82 | 5305000425567 | SCREW,ASSE | 5 | S9I | SAI | MECHANICSBURG | PA | 0.19 | 0.0100 | 0.0010 | 0 | 0 | 0 |
| 83 | 5305000593664 | SCREW,MACH | 3 | S9I | SAI | MECHANICSBURG | PA | 14.88 | 0.0100 | 0.0010 | 0 | 0 | 0 |

81

# APPENDIX B - CONSUMABLE RO EQUATION

Ground Simulation

$$RO = [(OST + SL + OL) / 30] \times AMRD$$

| ITEM NO | NSN | OST | SL | OL | AMRD | RO |
|---|---|---|---|---|---|---|
| 1 | 2510007368622 | 24 | 15 | 60 | 0 | 2 |
| 2 | 2520011272624 | 13 | 30 | 60 | 1 | 6 |
| 3 | 2520011374843 | 13 | 30 | 60 | 0 | 2 |
| 4 | 2530003401405 | 5 | 30 | 60 | 0 | 0 |
| 5 | 2530011271677 | 5 | 30 | 60 | 0 | 0 |
| 6 | 2540010627132 | 12 | 30 | 60 | 12 | 41 |
| 7 | 2540011026863 | 21 | 30 | 60 | 0 | 2 |
| 8 | 2540011860969 | 24 | 15 | 60 | 56 | 185 |
| 9 | 2590011689871 | 17 | 30 | 60 | 12 | 42 |
| 10 | 2590011905604 | 18 | 30 | 60 | 1 | 4 |
| 11 | 2590012505009 | 20 | 15 | 60 | 0 | 1 |
| 12 | 2940005370946 | 21 | 15 | 60 | 41 | 130 |
| 13 | 3040010362989 | 16 | 30 | 60 | 0 | 0 |
| 14 | 3040012545288 | 12 | 30 | 60 | 3 | 12 |
| 15 | 3110001014194 | 20 | 30 | 60 | 9 | 34 |
| 16 | 3120011176328 | 18 | 30 | 60 | 2 | 6 |
| 17 | 3439001321331 | 22 | 15 | 60 | 2 | 9 |
| 18 | 3439002528352 | 14 | 15 | 60 | 7 | 22 |
| 19 | 3740006414719 | 5 | 15 | 60 | 0 | 0 |
| 20 | 3805011783177 | 22 | 30 | 60 | 0 | 0 |
| 21 | 3805013644471 | 5 | 30 | 60 | 0 | 0 |
| 22 | 3895002526896 | 5 | 15 | 60 | 0 | 0 |
| 23 | 4010001293221 | 36 | 30 | 60 | 4 | 19 |
| 24 | 4010005852108 | 14 | 30 | 60 | 1 | 4 |
| 25 | 4010011096832 | 21 | 30 | 60 | 1 | 4 |
| 26 | 4030000019952 | 24 | 30 | 60 | 1 | 6 |
| 27 | 4030009487315 | 21 | 30 | 60 | 1 | 2 |
| 28 | 4030010446040 | 23 | 30 | 60 | 0 | 0 |
| 29 | 4030011420456 | 13 | 15 | 60 | 1 | 3 |
| 30 | 4110009247845 | 162 | 30 | 60 | 1 | 8 |
| 31 | 4130001539266 | 15 | 30 | 60 | 0 | 0 |
| 32 | 4130001938488 | 16 | 30 | 60 | 1 | 4 |
| 33 | 4130009510806 | 35 | 30 | 60 | 1 | 5 |
| 34 | 4320009224933 | 98 | 30 | 60 | 5 | 31 |
| 35 | 4320010981703 | 13 | 30 | 60 | 0 | 2 |
| 36 | 4330011310279 | 22 | 30 | 60 | 3 | 12 |
| 37 | 4330011643433 | 26 | 30 | 60 | 4 | 15 |
| 38 | 4330011903579 | 56 | 15 | 60 | 16 | 69 |
| 39 | 4710002000284 | 23 | 30 | 60 | 1 | 4 |
| 40 | 4710006099779 | 11 | 30 | 60 | 0 | 0 |
| 41 | 4710007409477 | 5 | 30 | 60 | 0 | 0 |
| 42 | 4710010053330 | 50 | 30 | 60 | 2 | 8 |
| 43 | 4710011883516 | 16 | 30 | 60 | 0 | 1 |
| 44 | 4710011888780 | 16 | 30 | 60 | 1 | 4 |
| 45 | 4710013229315 | 5 | 30 | 60 | 0 | 0 |
| 46 | 4720001776157 | 12 | 30 | 60 | 0 | 0 |
| 47 | 4720002039658 | 5 | 30 | 60 | 0 | 0 |
| 48 | 4720004613796 | 23 | 30 | 60 | 1 | 4 |
| 49 | 4720007059542 | 18 | 30 | 60 | 0 | 0 |
| 50 | 4720009641433 | 43 | 30 | 60 | 1 | 5 |
| 51 | 4720009770316 | 22 | 30 | 60 | 1 | 3 |
| 52 | 4720010673891 | 44 | 30 | 60 | 1 | 5 |

# APPENDIX B - CONSUMABLE RO EQUATION

| | | | | | | |
|---|---|---|---|---|---|---|
| 53 | 4720010889650 | 19 | 30 | 60 | 1 | 4 |
| 54 | 4720011233812 | 5 | 30 | 60 | 0 | 0 |
| 55 | 4720011560549 | 5 | 15 | 60 | 0 | 0 |
| 56 | 4720011797614 | 8 | 15 | 60 | 2 | 6 |
| 57 | 4720011816796 | 15 | 30 | 60 | 1 | 4 |
| 58 | 4720011929602 | 15 | 30 | 60 | 0 | 0 |
| 59 | 4720012122604 | 14 | 30 | 60 | 1 | 4 |
| 60 | 4720013252278 | 5 | 30 | 60 | 0 | 0 |
| 61 | 4730001188546 | 17 | 30 | 60 | 1 | 4 |
| 62 | 4730002028469 | 14 | 15 | 60 | 0 | 0 |
| 63 | 4730002660538 | 14 | 15 | 60 | 3 | 10 |
| 64 | 4730003962962 | 14 | 30 | 60 | 0 | 0 |
| 65 | 4730004926040 | 20 | 15 | 60 | 16 | 51 |
| 66 | 4730005416584 | 14 | 15 | 60 | 5 | 14 |
| 67 | 4730006047953 | 18 | 30 | 60 | 2 | 9 |
| 68 | 4730007205002 | 21 | 15 | 60 | 0 | 0 |
| 69 | 4730008137811 | 15 | 30 | 60 | 0 | 0 |
| 70 | 4730010057253 | 5 | 30 | 60 | 0 | 0 |
| 71 | 4730010707680 | 5 | 30 | 60 | 0 | 0 |
| 72 | 4730010836059 | 13 | 30 | 60 | 0 | 0 |
| 73 | 4730010900258 | 17 | 30 | 60 | 5 | 17 |
| 74 | 4730010996474 | 19 | 30 | 60 | 1 | 4 |
| 75 | 4730011173837 | 48 | 30 | 60 | 5 | 24 |
| 76 | 4730011196895 | 17 | 30 | 60 | 1 | 4 |
| 77 | 4730011340854 | 12 | 30 | 60 | 2 | 6 |
| 78 | 4730011549942 | 15 | 30 | 60 | 3 | 11 |
| 79 | 4820011589223 | 14 | 15 | 60 | 1 | 3 |
| 80 | 4930004707354 | 13 | 30 | 60 | 0 | 0 |
| 81 | 5305000213620 | 14 | 15 | 60 | 2 | 6 |
| 82 | 5305000425567 | 26 | 30 | 60 | 6 | 22 |
| 83 | 5305000593664 | 14 | 15 | 60 | 3 | 9 |

RO = Requisitioning Objective
RR = Repair Rate
RCT = Repair Cycle Time
OST=Order Ship Time
SL=Safety Level
OL=Operating Level
AMRD=Average Monthtly Recurring

83

# APPENDIX B - CONSUMABLE RO EQUATION

Premium Simulation

$$RO = [(OST + SL + OL) / 30] \times AMRD$$

| ITEM NO | NSN | OST | SL | OL | AMRD | RO |
|---|---|---|---|---|---|---|
| 1 | 2510007368622 | 14 | 15 | 60 | 0 | 2 |
| 2 | 2520011272624 | 7 | 30 | 60 | 1 | 5 |
| 3 | 2520011374843 | 9 | 30 | 60 | 0 | 2 |
| 4 | 2530003401405 | 5 | 30 | 60 | 0 | 0 |
| 5 | 2530011271677 | 5 | 30 | 60 | 0 | 0 |
| 6 | 2540010627132 | 8 | 30 | 60 | 12 | 39 |
| 7 | 2540011026863 | 9 | 30 | 60 | 0 | 1 |
| 8 | 2540011860969 | 15 | 15 | 60 | 56 | 167 |
| 9 | 2590011689871 | 11 | 30 | 60 | 12 | 39 |
| 10 | 2590011905604 | 13 | 30 | 60 | 1 | 4 |
| 11 | 2590012505009 | 16 | 15 | 60 | 0 | 1 |
| 12 | 2940005370946 | 16 | 15 | 60 | 41 | 123 |
| 13 | 3040010362989 | 16 | 30 | 60 | 0 | 0 |
| 14 | 3040012545288 | 12 | 30 | 60 | 3 | 12 |
| 15 | 3110001014194 | 13 | 30 | 60 | 9 | 32 |
| 16 | 3120011176328 | 10 | 30 | 60 | 2 | 6 |
| 17 | 3439001321331 | 14 | 15 | 60 | 2 | 8 |
| 18 | 3439002528352 | 6 | 15 | 60 | 7 | 20 |
| 19 | 3740006414719 | 5 | 15 | 60 | 0 | 0 |
| 20 | 3805011783177 | 7 | 30 | 60 | 0 | 0 |
| 21 | 3805013644471 | 5 | 30 | 60 | 0 | 0 |
| 22 | 3895002526896 | 5 | 15 | 60 | 0 | 0 |
| 23 | 4010001293221 | 23 | 30 | 60 | 4 | 17 |
| 24 | 4010005852108 | 7 | 30 | 60 | 1 | 4 |
| 25 | 4010011096832 | 17 | 30 | 60 | 1 | 4 |
| 26 | 4030000019952 | 15 | 30 | 60 | 1 | 5 |
| 27 | 4030009487315 | 15 | 30 | 60 | 1 | 2 |
| 28 | 4030010446040 | 4 | 30 | 60 | 0 | 0 |
| 29 | 4030011420456 | 7 | 15 | 60 | 1 | 3 |
| 30 | 4110009247845 | 156 | 30 | 60 | 1 | 8 |
| 31 | 4130001539266 | 5 | 30 | 60 | 0 | 0 |
| 32 | 4130001938488 | 8 | 30 | 60 | 1 | 4 |
| 33 | 4130009510806 | 22 | 30 | 60 | 1 | 5 |
| 34 | 4320009224933 | 94 | 30 | 60 | 5 | 30 |
| 35 | 4320010981703 | 13 | 30 | 60 | 0 | 2 |
| 36 | 4330011310279 | 13 | 30 | 60 | 3 | 11 |
| 37 | 4330011643433 | 15 | 30 | 60 | 4 | 14 |
| 38 | 4330011903579 | 34 | 15 | 60 | 16 | 58 |
| 39 | 4710002000284 | 12 | 30 | 60 | 1 | 4 |
| 40 | 4710006099779 | 5 | 30 | 60 | 0 | 0 |
| 41 | 4710007409477 | 5 | 30 | 60 | 0 | 0 |
| 42 | 4710010053330 | 47 | 30 | 60 | 2 | 8 |
| 43 | 4710011883516 | 7 | 30 | 60 | 0 | 1 |
| 44 | 4710011888780 | 9 | 30 | 60 | 1 | 4 |
| 45 | 4710013229315 | 5 | 30 | 60 | 0 | 0 |
| 46 | 4720001776157 | 8 | 30 | 60 | 0 | 0 |
| 47 | 4720002039658 | 5 | 30 | 60 | 0 | 0 |
| 48 | 4720004613796 | 16 | 30 | 60 | 1 | 4 |
| 49 | 4720007059542 | 10 | 30 | 60 | 0 | 0 |
| 50 | 4720009641433 | 37 | 30 | 60 | 1 | 5 |
| 51 | 4720009770316 | 10 | 30 | 60 | 1 | 3 |
| 52 | 4720010673891 | 39 | 30 | 60 | 1 | 5 |

## APPENDIX B - CONSUMABLE RO EQUATION

| | | | | | | |
|---|---|---|---|---|---|---|
| 53 | 4720010889650 | 9 | 30 | 60 | 1 | 4 |
| 54 | 4720011233812 | 5 | 30 | 60 | 0 | 0 |
| 55 | 4720011560549 | 5 | 15 | 60 | 0 | 0 |
| 56 | 4720011797614 | 5 | 15 | 60 | 2 | 6 |
| 57 | 4720011816796 | 7 | 30 | 60 | 1 | 4 |
| 58 | 4720011929602 | 2 | 30 | 60 | 0 | 0 |
| 59 | 4720012122604 | 6 | 30 | 60 | 1 | 4 |
| 60 | 4720013252278 | 6 | 30 | 60 | 0 | 0 |
| 61 | 4730001188546 | 12 | 30 | 60 | 1 | 3 |
| 62 | 4730002028469 | 9 | 15 | 60 | 0 | 0 |
| 63 | 4730002660538 | 8 | 15 | 60 | 3 | 9 |
| 64 | 4730003962962 | 4 | 30 | 60 | 0 | 0 |
| 65 | 4730004926040 | 15 | 15 | 60 | 16 | 48 |
| 66 | 4730005416584 | 9 | 15 | 60 | 5 | 13 |
| 67 | 4730006047953 | 7 | 30 | 60 | 2 | 9 |
| 68 | 4730007205002 | 1 | 15 | 60 | 0 | 0 |
| 69 | 4730008137811 | 3 | 30 | 60 | 0 | 0 |
| 70 | 4730010057253 | 5 | 30 | 60 | 0 | 0 |
| 71 | 4730010707680 | 5 | 30 | 60 | 0 | 0 |
| 72 | 4730010836059 | 4 | 30 | 60 | 0 | 0 |
| 73 | 4730010900258 | 8 | 30 | 60 | 5 | 16 |
| 74 | 4730010996474 | 5 | 30 | 60 | 1 | 4 |
| 75 | 4730011173837 | 29 | 30 | 60 | 5 | 21 |
| 76 | 4730011196895 | 9 | 30 | 60 | 1 | 4 |
| 77 | 4730011340854 | 6 | 30 | 60 | 2 | 6 |
| 78 | 4730011549942 | 4 | 30 | 60 | 3 | 10 |
| 79 | 4820011589223 | 6 | 15 | 60 | 1 | 3 |
| 80 | 4930004707354 | 8 | 30 | 60 | 0 | 0 |
| 81 | 5305000213620 | 9 | 15 | 60 | 2 | 6 |
| 82 | 5305000425567 | 19 | 30 | 60 | 6 | 21 |
| 83 | 5305000593664 | 5 | 15 | 60 | 3 | 8 |

RO = Requisitioning Objective
RR = Repair Rate
RCT = Repair Cycle Time
OST=Order Ship Time
SL=Safety Level
OL=Operating Level
AMRD=Average Monthtly Recurring

85

ITEM MONTHTLY DEMAND

| NO | FOR EACH NSN | APR 96 | MAY 96 | JUN 96 | JUL 96 | AUG 96 | SEP 96 | OCT 96 | NOV 96 | DEC 96 | JAN 97 | FEB 97 | MAR 97 | APR 97 | MAY 97 | JUN 97 | JUL 97 | AUG 97 | SEP 97 |
|----|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 2510007368622 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 2520011272624 | 0 | 0 | 14 | 0 | 6 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 2520011374843 | 5 | 0 | 4 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 2530003401405 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 2530011271677 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 2540010627132 | 0 | 0 | 0 | 0 | 12 | 0 | 12 | 0 | 0 | 94 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 2540011026863 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 2540011860969 | 0 | 0 | 0 | 180 | 0 | 208 | 8 | 0 | 80 | 292 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 2590011689871 | 4 | 20 | 35 | 0 | 10 | 0 | 0 | 0 | 0 | 75 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 2590011905604 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | 2590012505009 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | 2940005370946 | 8 | 0 | 212 | 60 | 156 | 0 | 0 | 234 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | 3040010362989 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | 3040012545288 | 0 | 0 | 2 | 0 | 2 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 3110001014194 | 0 | 0 | 20 | 12 | 28 | 0 | 0 | 0 | 18 | 36 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | 3120011176328 | 0 | 0 | 0 | 0 | 4 | 10 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | 3439001321331 | 90 | 0 | 10 | 10 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 | 3439002528352 | 0 | 0 | 0 | 20 | 10 | 0 | 0 | 0 | 0 | 66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | 3740006414719 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | 3805011783177 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 | 3805013644471 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | 3895002526896 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | 4010001293221 | 0 | 0 | 0 | 8 | 6 | 2 | 12 | 0 | 0 | 14 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 | 4010005852108 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 | 4010011096832 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 4030000019952 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | 4030009487315 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | 4030010446040 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | 4030011420456 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 | 4110009247845 | 0 | 6 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 31 | 4130001539266 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32 | 4130001938488 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 33 | 4130009510806 | 0 | 0 | 6 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34 | 4320009224933 | 0 | 0 | 6 | 4 | 68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35 | 4320010981703 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 36 | 4330011310279 | 2 | 0 | 8 | 2 | 16 | 2 | 0 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37 | 4330011643433 | 0 | 22 | 15 | 50 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 38 | 4330011903579 | 728 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 | 4710002000284 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 | 4710006099779 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41 | 4710007409477 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42 | 4710010053330 | 0 | 2 | 0 | 0 | 15 | 0 | 0 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 43 | 4710011883516 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44 | 4710011888780 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45 | 4710013229315 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 46 | 4720001776157 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 47 | 4720002039658 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 48 | 4720004613796 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 49 | 4720007059542 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50 | 4720009641433 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 51 | 4720009770316 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 52 | 4720010673891 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 53 | 4720010889650 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54 | 4720011233812 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55 | 4720011560549 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 56 | 4720011797614 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 |
| 57 | 4720011816796 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 58 | 4720011929602 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 59 | 4720012122604 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 60 | 4720013252278 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61 | 4730001188546 | 0 | 0 | 6 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62 | 4730002028469 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 63 | 4730002660538 | 0 | 0 | 8 | 0 | 9 | 0 | 9 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 64 | 4730003962962 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65 | 4730004926040 | 4 | 0 | 40 | 0 | 24 | 60 | 0 | 68 | 0 | 28 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66 | 4730005416584 | 0 | 0 | 26 | 0 | 9 | 0 | 0 | 11 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67 | 4730006047953 | 0 | 0 | 0 | 5 | 3 | 0 | 8 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 68 | 4730007205002 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69 | 4730008137811 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70 | 4730010057253 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71 | 4730010707680 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72 | 4730010836059 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 73 | 4730010900258 | 0 | 0 | 0 | 0 | 0 | 24 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 74 | 4730010996474 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75 | 4730011173837 | 0 | 0 | 14 | 0 | 12 | 0 | 0 | 12 | 8 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 |
| 76 | 4730011196895 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 77 | 4730011340854 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 78 | 4730011549942 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 6 | 7 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 79 | 4820011589223 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80 | 4930004707354 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 81 | 5305000213620 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82 | 5305000425567 | 0 | 0 | 17 | 0 | 15 | 0 | 0 | 21 | 25 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 83 | 5305000593664 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

87

# APPENDIX B - AMRD DATA

| ITEM NO | 12-MONTH AVG DEMAND FOR EACH NSN | MAR 97 | APR 97 | MAY 97 | JUN 97 | JUL 97 | AUG 97 | SEP 97 |
|---|---|---|---|---|---|---|---|---|
| 1 | 2510007368622 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 2 | 2520011272624 | 2 | 2 | 2 | 1 | 1 | 1 | 1 |
| 3 | 2520011374843 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 4 | 2530003401405 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 2530011271677 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 2540010627132 | 12 | 12 | 12 | 12 | 12 | 11 | 11 |
| 7 | 2540011026863 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 8 | 2540011860969 | 64 | 64 | 64 | 64 | 49 | 49 | 32 |
| 9 | 2590011689871 | 15 | 14 | 13 | 10 | 10 | 9 | 9 |
| 10 | 2590011905604 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | 2590012505009 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 12 | 2940005370946 | 58 | 57 | 57 | 39 | 34 | 21 | 21 |
| 13 | 3040010362989 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | 3040012545288 | 4 | 4 | 4 | 3 | 3 | 3 | 0 |
| 15 | 3110001014194 | 11 | 11 | 11 | 10 | 9 | 6 | 6 |
| 16 | 3120011176328 | 2 | 2 | 2 | 2 | 2 | 1 | 0 |
| 17 | 3439001321331 | 10 | 2 | 2 | 1 | 1 | 1 | 1 |
| 18 | 3439002528352 | 8 | 8 | 8 | 8 | 6 | 6 | 6 |
| 19 | 3740006414719 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | 3805011783177 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 | 3805013644471 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | 3895002526896 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | 4010001293221 | 5 | 5 | 5 | 5 | 4 | 3 | 3 |
| 24 | 4010005852108 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 25 | 4010011096832 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | 4030000019952 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| 27 | 4030009487315 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| 28 | 4030010446040 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | 4030011420456 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 30 | 4110009247845 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| 31 | 4130001539266 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32 | 4130001938488 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 33 | 4130009510806 | 2 | 2 | 2 | 1 | 1 | 0 | 0 |
| 34 | 4320009224933 | 7 | 7 | 7 | 6 | 6 | 0 | 0 |
| 35 | 4320010981703 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 36 | 4330011310279 | 4 | 4 | 4 | 3 | 3 | 2 | 1 |
| 37 | 4330011643433 | 8 | 8 | 6 | 5 | 0 | 0 | 0 |
| 38 | 4330011903579 | 67 | 6 | 6 | 6 | 6 | 6 | 6 |
| 39 | 4710002000284 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| 40 | 4710006099779 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41 | 4710007409477 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42 | 4710010053330 | 2 | 2 | 2 | 2 | 2 | 1 | 1 |
| 43 | 4710011883516 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44 | 4710011888780 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 45 | 4710013229315 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 46 | 4720001776157 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 47 | 4720002039658 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 48 | 4720004613796 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 49 | 4720007059542 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50 | 4720009641433 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 51 | 4720009770316 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| 52 | 4720010673891 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 53 | 4720010889650 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 54 | 4720011233812 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55 | 4720011560549 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 56 | 4720011797614 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 57 | 4720011816796 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 58 | 4720011929602 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 59 | 4720012122604 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 60 | 4720013252278 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61 | 4730001188546 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| 62 | 4730002028469 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 63 | 4730002660538 | 4 | 4 | 4 | 3 | 3 | 2 | 2 |
| 64 | 4730003962962 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65 | 4730004926040 | 19 | 19 | 19 | 15 | 15 | 13 | 8 |
| 66 | 4730005416584 | 6 | 6 | 6 | 4 | 4 | 3 | 3 |
| 67 | 4730006047953 | 3 | 3 | 3 | 3 | 2 | 2 | 2 |
| 68 | 4730007205002 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69 | 4730008137811 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70 | 4730010057253 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71 | 4730010707680 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72 | 4730010836059 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 73 | 4730010900258 | 5 | 5 | 5 | 5 | 5 | 5 | 3 |

# APPENDIX B - AMRD DATA

| 74 | 4730010996474 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 75 | 4730011173837 | 6 | 6 | 6 | 5 | 5 | 4 | 4 |
| 76 | 4730011196895 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 77 | 4730011340854 | 2 | 2 | 2 | 2 | 2 | 1 | 1 |
| 78 | 4730011549942 | 3 | 3 | 3 | 3 | 3 | 3 | 2 |
| 79 | 4820011589223 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 80 | 4930004707354 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 81 | 5305000213620 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 82 | 5305000425567 | 7 | 7 | 7 | 5 | 5 | 4 | 4 |
| 83 | 5305000593664 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

# APPENDIX B - OST DATA

| ITEM NO | NSN | SMU QTY | SMU ORDER | SMU RECPT | CUST TRANSIT | GROUND SMU OST | PREMIUM SMU OST |
|---|---|---|---|---|---|---|---|
| 1 | 2510007368622 | 8 | 6169 | 6193 | 11 | 24 | 14 |
| 2 | 2520011272624 | 7 | 6169 | 6180 | 5 | 11 | 7 |
| | | 7 | 6169 | 6180 | 9 | 11 | 3 |
| | | 3 | 6263 | 6276 | 7 | 13 | 7 |
| | | 3 | 6263 | 6276 | 7 | 13 | 7 |
| | | 4 | 7029 | 7044 | 8 | 15 | 8 |
| | | 4 | 7029 | 7044 | 6 | 15 | 10 |
| 3 | 2520011374843 | 5 | 6117 | 6131 | 5 | 14 | 10 |
| | | 4 | 6169 | 6180 | 5 | 11 | 7 |
| | | 3 | 6263 | 6276 | 5 | 13 | 9 |
| 4 | 2530003401405 | 0 | N/A | N/A | N/A | N/A | N/A |
| 5 | 2530011271677 | 0 | N/A | N/A | N/A | N/A | N/A |
| 6 | 2540010627132 | 2 | 6233 | 6250 | 14 | 17 | 4 |
| | | 2 | 6233 | 6250 | 13 | 17 | 5 |
| | | 2 | 6233 | 6250 | 13 | 17 | 5 |
| | | 2 | 6233 | 6250 | 3 | 17 | 15 |
| | | 2 | 6233 | 6250 | 5 | 17 | 13 |
| | | 2 | 6233 | 6250 | 10 | 17 | 8 |
| | | 2 | 6305 | 6319 | 10 | 14 | 5 |
| | | 2 | 6305 | 6319 | 6 | 14 | 9 |
| | | 2 | 6305 | 6319 | 11 | 14 | 4 |
| | | 2 | 6305 | 6319 | 6 | 14 | 9 |
| | | 2 | 6305 | 6319 | 8 | 14 | 7 |
| | | 2 | 6305 | 6319 | 7 | 14 | 8 |
| | | 14 | 7029 | 7044 | 10 | ·15 | 6 |
| | | 14 | 7029 | 7044 | 6 | 15 | 10 |
| | | 14 | 7029 | 7044 | 13 | 15 | 3 |
| | | 14 | 7029 | 7044 | 13 | 15 | 3 |
| | | 14 | 7029 | 7044 | 14 | 15 | 2 |
| | | 14 | 7029 | 7044 | 7 | 15 | 9 |
| | | 5 | 7070 | 7076 | 4 | 6 | 3 |
| | | 5 | 7070 | 7076 | 4 | 6 | 3 |
| | | 5 | 7070 | 7076 | 3 | 6 | 4 |
| | | 5 | 7070 | 7076 | 3 | 6 | 4 |
| | | 5 | 7070 | 7076 | 3 | 6 | 4 |
| | | 5 | 7070 | 7076 | 3 | 6 | 4 |
| 7 | 2540011026863 | 5 | 6135 | 6156 | 15 | 21 | 7 |
| | | 2 | 6339 | 6365 | 15 | 26 | 12 |
| | | 2 | 7029 | 7044 | 8 | 15 | 8 |
| 8 | 2540011860969 | 45 | 6204 | 6215 | 8 | 11 | 4 |
| | | 45 | 6204 | 6215 | 1 | 11 | 11 |
| | | 45 | 6204 | 6215 | 5 | 11 | 7 |
| | | 45 | 6204 | 6215 | 8 | 11 | 4 |
| | | 50 | 6265 | 6276 | 8 | 11 | 4 |
| | | 50 | 6265 | 6276 | 8 | 11 | 4 |
| | | 50 | 6265 | 6276 | 3 | 11 | 9 |
| | | 50 | 6265 | 6276 | 8 | 11 | 4 |
| | | 4 | 6270 | 6291 | 11 | 21 | 11 |
| | | 4 | 6270 | 6291 | 10 | 21 | 12 |
| | | 4 | 6270 | 6291 | 11 | 21 | 11 |
| | | 4 | 6270 | 6291 | 11 | 21 | 11 |
| | | 2 | 6274 | 6292 | 7 | 18 | 12 |
| | | 2 | 6274 | 6292 | 7 | 18 | 12 |
| | | 2 | 6274 | 6292 | 7 | 18 | 12 |
| | | 2 | 6274 | 6292 | 6 | 18 | 13 |
| | | 10 | 6339 | 6365 | 8 | 26 | 19 |
| | | 10 | 6339 | 6365 | 3 | 26 | 24 |
| | | 10 | 6339 | 6365 | 19 | 26 | 8 |
| | | 10 | 6339 | 6365 | 11 | 26 | 16 |
| | | 10 | 6347 | 7041 | 10 | 59 | 50 |
| | | 10 | 6347 | 7041 | 11 | 59 | 49 |
| | | 10 | 6347 | 7041 | 11 | 59 | 49 |
| | | 10 | 6347 | 7041 | 10 | 59 | 50 |
| | | 73 | 7023 | 7030 | 5 | 7 | 3 |
| | | 73 | 7023 | 7030 | 5 | 7 | 3 |
| | | 73 | 7023 | 7030 | 5 | 7 | 3 |
| | | 73 | 7023 | 7030 | 4 | 7 | 4 |
| 9 | 2590011689871 | 1 | 6103 | 6128 | 9 | 25 | 17 |
| | | 1 | 6103 | 6128 | 7 | 25 | 19 |
| | | 1 | 6103 | 6128 | 8 | 25 | 18 |
| | | 1 | 6103 | 6128 | 11 | 25 | 15 |
| | | 1 | 6103 | 6128 | 8 | 25 | 18 |
| | | 4 | 6135 | 6152 | 9 | 17 | 9 |
| | | 4 | 6135 | 6152 | 6 | 17 | 12 |
| | | 4 | 6135 | 6152 | 9 | 17 | 9 |
| | | 4 | 6135 | 6152 | 7 | 17 | 11 |
| | | 4 | 6135 | 6152 | 8 | 17 | 10 |
| | | 2 | 6159 | 6176 | 11 | 17 | 7 |
| | | 2 | 6159 | 6176 | 8 | 17 | 10 |
| | | 2 | 6159 | 6176 | 9 | 17 | 9 |
| | | 2 | 6159 | 6176 | 6 | 17 | 12 |
| | | 2 | 6159 | 6176 | 9 | 17 | 9 |
| | | 5 | 6169 | 6193 | 7 | 24 | 18 |

|    |               |    |      |      |    |    |    |
|----|---------------|----|------|------|----|----|----|
|    |               | 5  | 6169 | 6193 | 8  | 24 | 17 |
|    |               | 5  | 6169 | 6193 | 11 | 24 | 14 |
|    |               | 5  | 6169 | 6193 | 8  | 24 | 17 |
|    |               | 5  | 6169 | 6193 | 9  | 24 | 16 |
|    |               | 3  | 6171 | 6193 | 11 | 22 | 12 |
|    |               | 3  | 6171 | 6193 | 9  | 22 | 14 |
|    |               | 3  | 6171 | 6193 | 6  | 22 | 17 |
|    |               | 3  | 6171 | 6193 | 9  | 22 | 14 |
|    |               | 3  | 6171 | 6193 | 7  | 22 | 16 |
|    |               | 2  | 6242 | 6256 | 8  | 14 | 7  |
|    |               | 2  | 6242 | 6256 | 11 | 14 | 4  |
|    |               | 2  | 6242 | 6256 | 8  | 14 | 7  |
|    |               | 2  | 6242 | 6256 | 9  | 14 | 6  |
|    |               | 2  | 6242 | 6256 | 6  | 14 | 9  |
|    |               | 7  | 7007 | 7023 | 7  | 16 | 10 |
|    |               | 7  | 7007 | 7023 | 8  | 16 | 9  |
|    |               | 7  | 7007 | 7023 | 9  | 16 | 8  |
|    |               | 7  | 7007 | 7023 | 8  | 16 | 9  |
|    |               | 7  | 7007 | 7023 | 9  | 16 | 8  |
|    |               | 1  | 7023 | 7036 | 6  | 13 | 8  |
|    |               | 1  | 7023 | 7036 | 7  | 13 | 7  |
|    |               | 1  | 7023 | 7036 | 8  | 13 | 6  |
|    |               | 1  | 7023 | 7036 | 11 | 13 | 3  |
|    |               | 1  | 7023 | 7036 | 8  | 13 | 6  |
|    |               | 7  | 7029 | 7034 | 4  | 5  | 2  |
|    |               | 7  | 7029 | 7034 | 6  | 5  | 0  |
|    |               | 7  | 7029 | 7034 | 4  | 5  | 2  |
|    |               | 7  | 7029 | 7034 | 6  | 5  | 0  |
|    |               | 7  | 7029 | 7034 | 3  | 5  | 3  |
|    |               | 6  | 7064 | 7086 | 8  | 22 | 15 |
|    |               | 6  | 7064 | 7086 | 7  | 22 | 16 |
|    |               | 6  | 7064 | 7086 | 8  | 22 | 15 |
|    |               | 6  | 7064 | 7086 | 9  | 22 | 14 |
|    |               | 6  | 7064 | 7086 | 6  | 22 | 17 |
| 10 | 2590011905604 | 4  | 6233 | 6249 | 7  | 16 | 10 |
|    |               | 4  | 6233 | 6249 | 4  | 16 | 13 |
|    |               | 4  | 6233 | 6249 | 4  | 16 | 13 |
|    |               | 4  | 6233 | 6249 | 5  | 16 | 12 |
|    |               | 2  | 7064 | 7084 | 6  | 20 | 15 |
|    |               | 2  | 7064 | 7084 | 6  | 20 | 15 |
|    |               | 2  | 7064 | 7084 | 7  | 20 | 14 |
|    |               | 2  | 7064 | 7084 | 8  | 20 | 13 |
| 11 | 2590012505009 | 3  | 6121 | 6152 | 9  | 31 | 23 |
|    |               | 4  | 7051 | 7062 | 3  | 11 | 9  |
| 12 | 2940005370946 | 2  | 6103 | 6121 | 4  | 18 | 15 |
|    |               | 2  | 6103 | 6121 | 7  | 18 | 12 |
|    |               | 2  | 6103 | 6121 | 9  | 18 | 10 |
|    |               | 2  | 6103 | 6121 | 5  | 18 | 14 |
|    |               | 36 | 6171 | 6239 | 4  | 68 | 65 |
|    |               | 36 | 6171 | 6239 | 7  | 68 | 62 |
|    |               | 36 | 6171 | 6239 | 9  | 68 | 60 |
|    |               | 36 | 6171 | 6239 | 12 | 68 | 57 |
|    |               | 17 | 6179 | 6192 | 6  | 13 | 8  |
|    |               | 17 | 6179 | 6192 | 9  | 13 | 5  |
|    |               | 17 | 6179 | 6192 | 7  | 13 | 7  |
|    |               | 17 | 6179 | 6192 | 4  | 13 | 10 |
|    |               | 15 | 6204 | 6213 | 4  | 9  | 6  |
|    |               | 15 | 6204 | 6213 | 4  | 9  | 6  |
|    |               | 15 | 6204 | 6213 | 4  | 9  | 6  |
|    |               | 15 | 6204 | 6213 | 7  | 9  | 3  |
|    |               | 39 | 6242 | 6254 | 7  | 12 | 6  |
|    |               | 39 | 6242 | 6254 | 7  | 12 | 6  |
|    |               | 39 | 6242 | 6254 | 9  | 12 | 4  |
|    |               | 39 | 6242 | 6254 | 9  | 12 | 4  |
|    |               | 78 | 6305 | 6320 | 9  | 15 | 7  |
|    |               | 78 | 6305 | 6320 | 5  | 15 | 11 |
|    |               | 78 | 6305 | 6320 | 7  | 15 | 9  |
|    |               | 78 | 6305 | 6320 | 6  | 15 | 10 |
|    |               | 5  | 7039 | 7055 | 8  | 16 | 9  |
|    |               | 5  | 7039 | 7055 | 9  | 16 | 8  |
|    |               | 5  | 7039 | 7055 | 8  | 16 | 9  |
|    |               | 5  | 7039 | 7055 | 12 | 16 | 5  |
| 13 | 3040010362989 | 4  | 6135 | 6151 | 10 | 16 | 7  |
| 14 | 3040012545288 | 2  | 6171 | 6190 | 2  | 19 | 18 |
|    |               | 2  | 6242 | 6249 | 1  | 7  | 7  |
|    |               | 2  | 6265 | 6276 | 1  | 11 | 11 |
| 15 | 3110001014194 | 10 | 6169 | 6185 | 12 | 16 | 5  |
|    |               | 10 | 6169 | 6185 | 7  | 16 | 10 |
|    |               | 6  | 6202 | 6226 | 9  | 24 | 16 |
|    |               | 6  | 6202 | 6226 | 8  | 24 | 17 |
|    |               | 14 | 6242 | 6257 | 7  | 15 | 9  |
|    |               | 14 | 6242 | 6257 | 5  | 15 | 11 |
|    |               | 7  | 6263 | 6276 | 4  | 13 | 10 |
|    |               | 7  | 6263 | 6276 | 3  | 13 | 11 |
|    |               | 12 | 6264 | 6274 | 7  | 10 | 4  |
|    |               | 12 | 6264 | 6274 | 6  | 10 | 5  |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 9 | 6347 | 6394 | 9 | 47 | 39 |
| | | 9 | 6347 | 6394 | 8 | 47 | 40 |
| | | 18 | 7007 | 7023 | 7 | 16 | 10 |
| | | 18 | 7007 | 7023 | 5 | 16 | 12 |
| | | 11 | 7039 | 7055 | 4 | 16 | 13 |
| | | 11 | 7039 | 7055 | 3 | 16 | 14 |
| 16 | 3120011176328 | 2 | 6228 | 6243 | 11 | 15 | 5 |
| | | 2 | 6228 | 6243 | 13 | 15 | 3 |
| | | 5 | 6264 | 6282 | 7 | 18 | 12 |
| | | 5 | 6264 | 6282 | 10 | 18 | 9 |
| | | 2 | 7064 | 7086 | 7 | 22 | 16 |
| | | 2 | 7064 | 7086 | 9 | 22 | 14 |
| 17 | 3439001321331 | 10 | 6108 | 6114 | 4 | 6 | 3 |
| | | 9 | 6117 | 6185 | 12 | 68 | 57 |
| | | 4 | 6159 | 6173 | 13 | 14 | 2 |
| | | 6 | 6169 | 6183 | 7 | 14 | 8 |
| | | 10 | 6194 | 6214 | 14 | 20 | 7 |
| | | 7 | 6313 | 6332 | 13 | 19 | 7 |
| 18 | 3439002528352 | 10 | 6194 | 6205 | 11 | 11 | 1 |
| | | 10 | 6194 | 6205 | 10 | 11 | 2 |
| | | 5 | 6264 | 6277 | 9 | 13 | 5 |
| | | 5 | 6264 | 6277 | 11 | 13 | 3 |
| | | 33 | 7016 | 7034 | 10 | 18 | 9 |
| | | 33 | 7016 | 7034 | 11 | 18 | 8 |
| 19 | 3740006414719 | 0 | N/A | N/A | N/A | N/A | N/A |
| 20 | 3805011783177 | 2 | 6233 | 6255 | 16 | 22 | 7 |
| 21 | 3805013644471 | 0 | N/A | N/A | N/A | N/A | N/A |
| 22 | 3895002526896 | 0 | N/A | N/A | N/A | N/A | N/A |
| 23 | 4010001293221 | 4 | 6204 | 6221 | 14 | 17 | 4 |
| | | 4 | 6204 | 6221 | 8 | 17 | 10 |
| | | 3 | 6242 | 6255 | 12 | 13 | 2 |
| | | 3 | 6242 | 6255 | 6 | 13 | 8 |
| | | 1 | 6265 | 6282 | 11 | 17 | 7 |
| | | 1 | 6265 | 6282 | 9 | 17 | 9 |
| | | 1 | 6274 | 6298 | 4 | 24 | 21 |
| | | 1 | 6274 | 6298 | 6 | 24 | 19 |
| | | 5 | 6297 | 7077 | 12 | 145 | 134 |
| | | 5 | 6297 | 7077 | 14 | 145 | 132 |
| | | 7 | 7007 | 7023 | 11 | 16 | 6 |
| | | 7 | 7007 | 7023 | 9 | 16 | 8 |
| | | 6 | 7039 | 7051 | 4 | 12 | 9 |
| | | 6 | 7039 | 7051 | 6 | 12 | 7 |
| 24 | 4010005852108 | 3 | 6326 | 6341 | 11 | 15 | 5 |
| | | 3 | 6326 | 6341 | 8 | 15 | 8 |
| | | 3 | 6326 | 6341 | 12 | 15 | 4 |
| | | 2 | 6339 | 6353 | 5 | 14 | 10 |
| | | 2 | 6339 | 6353 | 9 | 14 | 6 |
| | | 2 | 6339 | 6353 | 8 | 14 | 7 |
| 25 | 4010011096832 | 5 | 7029 | 7050 | 3 | 21 | 19 |
| | | 5 | 7029 | 7050 | 7 | 21 | 15 |
| 26 | 4030000019952 | 2 | 6121 | 6158 | 9 | 37 | 29 |
| | | 2 | 6121 | 6158 | 16 | 37 | 22 |
| | | 2 | 6121 | 6158 | 5 | 37 | 33 |
| | | 1 | 6228 | 6256 | 9 | 28 | 20 |
| | | 1 | 6228 | 6256 | 10 | 28 | 19 |
| | | 1 | 6228 | 6256 | 9 | 28 | 20 |
| | | 1 | 6233 | 6249 | 9 | 16 | 8 |
| | | 1 | 6233 | 6249 | 7 | 16 | 10 |
| | | 1 | 6233 | 6249 | 5 | 16 | 12 |
| | | 2 | 7051 | 7063 | 9 | 12 | 4 |
| | | 2 | 7051 | 7063 | 10 | 12 | 3 |
| | | 2 | 7051 | 7063 | 9 | 12 | 4 |
| 27 | 4030009487315 | 7 | 6135 | 6156 | 2 | 21 | 20 |
| | | 7 | 6135 | 6156 | 5 | 21 | 17 |
| | | 7 | 6135 | 6156 | 13 | 21 | 9 |
| 28 | 4030010446040 | 1 | 6121 | 6155 | 13 | 34 | 22 |
| | | 2 | 7039 | 7051 | 9 | 12 | 4 |
| 29 | 4030011420456 | 3 | 6326 | 6340 | 5 | 14 | 10 |
| | | 2 | 6339 | 6351 | 10 | 12 | 3 |
| | | 2 | 7051 | 7065 | 8 | 14 | 7 |
| 30 | 4110009247845 | 6 | 6121 | 6267 | 7 | 146 | 140 |
| | | 6 | 6270 | 7084 | 7 | 179 | 173 |
| 31 | 4130001539266 | 5 | 6326 | 6341 | 11 | 15 | 5 |
| 32 | 4130001938488 | 5 | 6326 | 6340 | 10 | 14 | 5 |
| | | 4 | 6339 | 6358 | 10 | 19 | 10 |
| 33 | 4130009510806 | 6 | 6169 | 6184 | 3 | 15 | 13 |
| | | 4 | 6194 | 6267 | 14 | 73 | 60 |
| | | 4 | 6228 | 6241 | 3 | 13 | 11 |
| | | 4 | 6270 | 6291 | 13 | 21 | 9 |
| 34 | 4320009224933 | 2 | 6171 | 6276 | 4 | 105 | 102 |
| | | 2 | 6171 | 6276 | 3 | 105 | 103 |
| | | 1 | 6179 | 6268 | 3 | 89 | 87 |
| | | 1 | 6179 | 6268 | 4 | 89 | 86 |
| | | 2 | 6204 | 7076 | 3 | 237 | 235 |
| | | 2 | 6204 | 7076 | 3 | 237 | 235 |
| | | 17 | 6241 | 6268 | 3 | 27 | 25 |

|  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|
|  |  | 17 | 6241 | 6268 | 4 | 27 | 24 |
|  |  | 17 | 6242 | 6268 | 3 | 26 | 24 |
|  |  | 17 | 6242 | 6268 | 5 | 26 | 22 |
| 35 | 4320010981703 | 3 | 6169 | 6180 | 7 | 11 | 5 |
|  |  | 4 | 6178 | 6194 | 5 | 16 | 12 |
| 36 | 4330011310279 | 2 | 6103 | 6121 | 9 | 18 | 10 |
|  |  | 8 | 6169 | 6193 | 9 | 24 | 16 |
|  |  | 2 | 6204 | 6226 | 9 | 22 | 14 |
|  |  | 14 | 6228 | 6241 | 12 | 13 | 2 |
|  |  | 2 | 6242 | 6256 | 9 | 14 | 6 |
|  |  | 2 | 6265 | 6282 | 12 | 17 | 6 |
|  |  | 17 | 7007 | 7052 | 9 | 45 | 37 |
| 37 | 4330011643433 | 22 | 6134 | 6152 | 13 | 18 | 6 |
|  |  | 6 | 6171 | 6190 | 16 | 19 | 4 |
|  |  | 9 | 6178 | 6197 | 8 | 19 | 12 |
|  |  | 25 | 6208 | 6226 | 8 | 18 | 11 |
|  |  | 25 | 6208 | 6271 | 15 | 63 | 49 |
|  |  | 4 | 6242 | 6255 | 4 | 13 | 10 |
| 38 | 4330011903579 | 104 | 6103 | 6194 | 10 | 91 | 82 |
|  |  | 104 | 6103 | 6194 | 57 | 91 | 35 |
|  |  | 104 | 6103 | 6194 | 5 | 91 | 87 |
|  |  | 104 | 6103 | 6194 | 38 | 91 | 54 |
|  |  | 104 | 6103 | 6194 | 23 | 91 | 69 |
|  |  | 104 | 6103 | 6194 | 5 | 91 | 87 |
|  |  | 104 | 6103 | 6194 | 65 | 91 | 27 |
|  |  | 10 | 7056 | 7070 | 8 | 14 | 7 |
|  |  | 10 | 7056 | 7070 | 8 | 14 | 7 |
|  |  | 10 | 7056 | 7070 | 13 | 14 | 2 |
|  |  | 10 | 7056 | 7070 | 5 | 14 | 10 |
|  |  | 10 | 7056 | 7070 | 13 | 14 | 2 |
|  |  | 10 | 7056 | 7070 | 13 | 14 | 2 |
|  |  | 10 | 7056 | 7070 | 8 | 14 | 7 |
| 39 | 4710002000284 | 1 | 6121 | 6158 | 16 | 37 | 22 |
|  |  | 1 | 6228 | 6241 | 9 | 13 | 5 |
|  |  | 1 | 6263 | 6277 | 6 | 14 | 9 |
|  |  | 5 | 6339 | 7008 | 26 | 34 | 9 |
| 40 | 4710006099779 | 0 | N/A | N/A | N/A | N/A | N/A |
|  |  | 3 | 6326 | 6341 | 11 | 15 | 5 |
|  |  | 2 | 6339 | 6353 | 11 | 14 | 4 |
| 41 | 4710007409477 | 0 | N/A | N/A | N/A | N/A | N/A |
|  |  | 0 | N/A | N/A | N/A | N/A | N/A |
| 42 | 4710010053330 | 2 | 6135 | 6256 | 10 | 121 | 112 |
|  |  | 15 | 6222 | 6249 | 7 | 27 | 21 |
|  |  | 1 | 6305 | 6319 | 9 | 14 | 6 |
|  |  | 5 | 6339 | 7029 | 7 | 55 | 49 |
| 43 | 4710011883516 | 5 | 6117 | 6134 | 7 | 17 | 11 |
|  |  | 5 | 7029 | 7044 | 13 | 15 | 3 |
| 44 | 4710011888780 | 3 | 6326 | 6344 | 14 | 18 | 5 |
|  |  | 3 | 6326 | 6344 | 9 | 18 | 10 |
|  |  | 2 | 6339 | 6353 | 5 | 14 | 10 |
|  |  | 2 | 6339 | 6353 | 5 | 14 | 10 |
| 45 | 4710013229315 | 0 | N/A | N/A | N/A | N/A | N/A |
| 46 | 4720001776157 | 5 | 6046 | 6058 | 5 | 12 | 8 |
| 47 | 4720002039658 | 0 | N/A | N/A | N/A | N/A | N/A |
| 48 | 4720004613796 | 1 | 6142 | 6162 | 9 | 20 | 12 |
|  |  | 10 | 7007 | 7034 | 8 | 27 | 20 |
|  |  | 4 | 7029 | 7051 | 7 | 22 | 16 |
| 49 | 4720007059542 | 17 | 7051 | 7069 | 9 | 18 | 10 |
| 50 | 4720009641433 | 3 | 6305 | 6406 | 9 | 101 | 93 |
|  |  | 2 | 7051 | 7059 | 7 | 8 | 2 |
|  |  | 2 | 7064 | 7085 | 9 | 21 | 13 |
| 51 | 4720009770316 | 1 | 6121 | 6152 | 24 | 31 | 8 |
|  |  | 1 | 6169 | 6183 | 12 | 14 | 3 |
|  |  | 1 | 6228 | 6256 | 10 | 28 | 19 |
|  |  | 1 | 6291 | 6310 | 7 | 19 | 13 |
|  |  | 4 | 6339 | 6354 | 6 | 15 | 10 |
| 52 | 4720010673891 | 2 | 6339 | 7087 | 5 | 113 | 109 |
|  |  | 2 | 6339 | 7087 | 8 | 113 | 106 |
|  |  | 2 | 6339 | 7087 | 7 | 113 | 107 |
|  |  | 1 | 7051 | 7058 | 7 | 7 | 1 |
|  |  | 1 | 7051 | 7058 | 6 | 7 | 2 |
|  |  | 1 | 7051 | 7058 | 5 | 7 | 3 |
|  |  | 1 | 7072 | 7085 | 6 | 13 | 8 |
|  |  | 1 | 7072 | 7085 | 9 | 13 | 5 |
|  |  | 1 | 7072 | 7085 | 5 | 13 | 9 |
| 53 | 4720010889650 | 3 | 6326 | 6341 | 7 | 15 | 9 |
|  |  | 3 | 6326 | 6341 | 11 | 15 | 5 |
|  |  | 2 | 6339 | 7003 | 23 | 29 | 7 |
|  |  | 2 | 6339 | 7003 | 13 | 29 | 17 |
|  |  | 2 | 7029 | 7044 | 12 | 15 | 4 |
|  |  | 2 | 7029 | 7044 | 7 | 15 | 9 |
| 54 | 4720011233812 | 0 | N/A | N/A | N/A | N/A | N/A |
| 55 | 4720011560549 | 0 | N/A | N/A | N/A | N/A | N/A |
| 56 | 4720011797614 | 7 | 6339 | 6351 | 8 | 12 | 5 |
|  |  | 7 | 6339 | 6351 | 3 | 12 | 10 |
|  |  | 6 | 7072 | 7078 | 3 | 6 | 4 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | 6 | 7072 | 7075 | 2 | 3 | 2 |
| 57 | 4720011816796 | 3 | 6326 | 6341 | 11 | 15 | 5 |
| | | 2 | 6339 | 6353 | 10 | 14 | 5 |
| | | 5 | 7007 | 7023 | 6 | 16 | 11 |
| 58 | 4720011929602 | 5 | 7029 | 7044 | 14 | 15 | 2 |
| 59 | 4720012122604 | 2 | 7051 | 7065 | 8 | 14 | 7 |
| | | 2 | 7051 | 7065 | 10 | 14 | 5 |
| | | 2 | 7051 | 7065 | 10 | 14 | 5 |
| | | 2 | 7051 | 7065 | 8 | 14 | 7 |
| 60 | 4720013252278 | 0 | N/A | N/A | N/A | N/A | N/A |
| | | 0 | N/A | N/A | N/A | N/A | N/A |
| 61 | 4730001188546 | 6 | 6169 | 6185 | 5 | 16 | 12 |
| | | 4 | 6264 | 6278 | 7 | 14 | 8 |
| | | 2 | 7064 | 7086 | 7 | 22 | 16 |
| 62 | 4730002028469 | 3 | 6326 | 6341 | 8 | 15 | 8 |
| | | 2 | 6339 | 6353 | 5 | 14 | 10 |
| 63 | 4730002660538 | 8 | 6169 | 6180 | 7 | 11 | 5 |
| | | 9 | 6234 | 6250 | 7 | 16 | 10 |
| | | 9 | 6291 | 6303 | 6 | 12 | 7 |
| | | 17 | 6339 | 6354 | 5 | 15 | 11 |
| 64 | 4730003962962 | 3 | 6297 | 6311 | 11 | 14 | 4 |
| 65 | 4730004926040 | 1 | 6103 | 6162 | 8 | 59 | 52 |
| | | 1 | 6103 | 6162 | 3 | 59 | 57 |
| | | 1 | 6103 | 6162 | 9 | 59 | 51 |
| | | 1 | 6103 | 6162 | 4 | 59 | 56 |
| | | 8 | 6169 | 6180 | 6 | 11 | 6 |
| | | 8 | 6169 | 6180 | 6 | 11 | 6 |
| | | 8 | 6169 | 6180 | 6 | 11 | 6 |
| | | 8 | 6169 | 6180 | 6 | 11 | 6 |
| | | 1 | 6171 | 6185 | 12 | 14 | 3 |
| | | 1 | 6171 | 6185 | 11 | 14 | 4 |
| | | 1 | 6171 | 6185 | 13 | 14 | 2 |
| | | 1 | 6171 | 6185 | 5 | 14 | 10 |
| | | 1 | 6179 | 6197 | 13 | 18 | 6 |
| | | 1 | 6179 | 6197 | 13 | 18 | 6 |
| | | 1 | 6179 | 6197 | 7 | 18 | 12 |
| | | 1 | 6179 | 6197 | 6 | 18 | 13 |
| | | 6 | 6242 | 6255 | 4 | 13 | 10 |
| | | 6 | 6242 | 6255 | 4 | 13 | 10 |
| | | 6 | 6242 | 6255 | 6 | 13 | 8 |
| | | 6 | 6242 | 6255 | 6 | 13 | 8 |
| | | 14 | 6264 | 6276 | 6 | 12 | 7 |
| | | 14 | 6264 | 6276 | 6 | 12 | 7 |
| | | 14 | 6264 | 6276 | 7 | 12 | 6 |
| | | 14 | 6264 | 6276 | 11 | 12 | 2 |
| | | 1 | 6270 | 6285 | 7 | 15 | 9 |
| | | 1 | 6270 | 6285 | 5 | 15 | 11 |
| | | 1 | 6270 | 6285 | 13 | 15 | 3 |
| | | 1 | 6270 | 6285 | 13 | 15 | 3 |
| | | 16 | 6305 | 6319 | 7 | 14 | 8 |
| | | 16 | 6305 | 6319 | 11 | 14 | 4 |
| | | 16 | 6305 | 6319 | 4 | 14 | 11 |
| | | 16 | 6305 | 6319 | 4 | 14 | 11 |
| | | 1 | 6313 | 7007 | 17 | 59 | 43 |
| | | 1 | 6313 | 7007 | 13 | 59 | 47 |
| | | 1 | 6313 | 7007 | 13 | 59 | 47 |
| | | 1 | 6313 | 7007 | 11 | 59 | 49 |
| | | 7 | 7023 | 7037 | 11 | 14 | 4 |
| | | 7 | 7023 | 7037 | 7 | 14 | 8 |
| | | 7 | 7023 | 7037 | 7 | 14 | 8 |
| | | 7 | 7023 | 7037 | 6 | 14 | 9 |
| | | 1 | 7039 | 7055 | 6 | 16 | 11 |
| | | 1 | 7039 | 7055 | 6 | 16 | 11 |
| | | 1 | 7039 | 7055 | 11 | 16 | 6 |
| | | 1 | 7039 | 7055 | 13 | 16 | 4 |
| 66 | 4730005416584 | 8 | 5341 | 5362 | 4 | 21 | 18 |
| | | 2 | 6159 | 6173 | 4 | 14 | 11 |
| | | 24 | 6169 | 6180 | 10 | 11 | 2 |
| | | 9 | 6228 | 6241 | 9 | 13 | 5 |
| | | 11 | 6305 | 6319 | 7 | 14 | 8 |
| | | 25 | 7024 | 7038 | 4 | 14 | 11 |
| 67 | 4730006047953 | 5 | 6204 | 6226 | 20 | 22 | 3 |
| | | 3 | 6228 | 6242 | 7 | 14 | 8 |
| | | 8 | 6291 | 6310 | 11 | 19 | 9 |
| | | 15 | 6339 | 6354 | 9 | 15 | 7 |
| 68 | 4730007205002 | 4 | 7029 | 7050 | 21 | 21 | 1 |
| 69 | 4730008137811 | 3 | 6326 | 6341 | 12 | 15 | 4 |
| | | 2 | 6339 | 6351 | 11 | 12 | 2 |
| 70 | 4730010057253 | 0 | N/A | N/A | N/A | N/A | N/A |
| 71 | 4730010707680 | 0 | N/A | N/A | N/A | N/A | N/A |
| 72 | 4730010836059 | 3 | 6326 | 6340 | 14 | 14 | 1 |
| | | 2 | 6339 | 6351 | 7 | 12 | 6 |
| 73 | 4730010900258 | 24 | 6264 | 6276 | 3 | 12 | 10 |
| | | 15 | 6274 | 6295 | 11 | 21 | 11 |
| | | 15 | 6291 | 6310 | 16 | 19 | 4 |
| 74 | 4730010996474 | 3 | 6326 | 6347 | 17 | 21 | 5 |

# APPENDIX B - OST DATA

|    |               |    |      |      |    |     |     |
|----|---------------|----|------|------|----|-----|-----|
|    |               | 2  | 6339 | 6354 | 9  | 15  | 7   |
|    |               | 5  | 7029 | 7051 | 20 | 22  | 3   |
| 75 | 4730011173837 | 27 | 5308 | 5436 | 25 | 128 | 104 |
|    |               | 14 | 6169 | 6190 | 18 | 21  | 4   |
|    |               | 12 | 6228 | 6318 | 24 | 90  | 67  |
|    |               | 12 | 6305 | 6313 | 6  | 8   | 3   |
|    |               | 8  | 6339 | 7006 | 16 | 32  | 17  |
|    |               | 40 | 6339 | 7006 | 29 | 32  | 4   |
|    |               | 22 | 7064 | 7086 | 20 | 22  | 3   |
| 76 | 4730011196895 | 3  | 6326 | 6341 | 9  | 15  | 7   |
|    |               | 3  | 6326 | 6341 | 11 | 15  | 5   |
|    |               | 2  | 6339 | 6351 | 10 | 12  | 3   |
|    |               | 2  | 6339 | 6351 | 8  | 12  | 5   |
|    |               | 3  | 7064 | 7087 | 8  | 23  | 16  |
|    |               | 3  | 7064 | 7087 | 7  | 23  | 17  |
| 77 | 4730011340854 | 12 | 6228 | 6241 | 7  | 13  | 7   |
|    |               | 10 | 6339 | 6351 | 9  | 12  | 4   |
| 78 | 4730011549942 | 13 | 6253 | 6264 | 8  | 11  | 4   |
|    |               | 6  | 6339 | 6351 | 8  | 12  | 5   |
|    |               | 7  | 7029 | 7044 | 13 | 15  | 3   |
|    |               | 15 | 7058 | 7078 | 15 | 20  | 6   |
| 79 | 4820011589223 | 5  | 6326 | 6341 | 5  | 15  | 11  |
|    |               | 4  | 6339 | 6353 | 11 | 14  | 4   |
|    |               | 7  | 7051 | 7063 | 10 | 12  | 3   |
| 80 | 4930004707354 | 3  | 6326 | 6339 | 3  | 13  | 11  |
|    |               | 2  | 6339 | 6353 | 10 | 14  | 5   |
| 81 | 5305000213620 | 5  | 6305 | 6319 | 10 | 14  | 5   |
|    |               | 13 | 7051 | 7065 | 1  | 14  | 14  |
| 82 | 5305000425567 | 17 | 6169 | 6185 | 9  | 16  | 8   |
|    |               | 15 | 6228 | 6320 | 9  | 92  | 84  |
|    |               | 21 | 6305 | 6318 | 11 | 13  | 3   |
|    |               | 25 | 6339 | 6353 | 11 | 14  | 4   |
|    |               | 2  | 7056 | 7069 | 12 | 13  | 2   |
|    |               | 21 | 7072 | 7078 | 3  | 6   | 4   |
| 83 | 5305000593664 | 23 | 6326 | 6341 | 11 | 15  | 5   |
|    |               | 15 | 6339 | 6353 | 10 | 14  | 5   |

95

# APPENDIX B - INVENTORY SAVINGS

| | | COST OF INVENTORY | | | | | MONTHLY INCREMENTAL INVENTORY SAVINGS | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

| ITEM NO | NSN | GROUND RO | PREMIUM RO | DECREASE IN RO | U / P | T/P | INV | OBSOL | OTHER | STOR | | INVENTORY HOLDING SAVII |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2510007368622 | 2 | 2 | 0 | 3.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 2 | 2520011272624 | 6 | 5 | 1 | 17.41 | 17.41 | 0.15 | 0.02 | 0.13 | 0.01 | = | 0.31 |
| 3 | 2520011374843 | 2 | 2 | 0 | 3.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 4 | 2530003401405 | 0 | 0 | 0 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 5 | 2530011271677 | 0 | 0 | 0 | 117.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 6 | 2540010627132 | 41 | 39 | 2 | 1.95 | 3.90 | 0.03 | 0.00 | 0.03 | 0.00 | = | 0.07 |
| 7 | 2540011026863 | 2 | 1 | 1 | 13.53 | 13.53 | 0.11 | 0.02 | 0.10 | 0.01 | = | 0.24 |
| 8 | 2540011860969 | 185 | 167 | 18 | 207.92 | 3742.56 | 31.19 | 4.37 | 28.19 | 3.12 | = | 66.87 |
| 9 | 2590011689871 | 42 | 39 | 3 | 20.64 | 61.92 | 0.52 | 0.07 | 0.47 | 0.05 | = | 1.11 |
| 10 | 2590011905604 | 4 | 4 | 0 | 1199.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 11 | 2590012505009 | 1 | 1 | 0 | 18.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 12 | 2940005370946 | 130 | 123 | 7 | 1.60 | 11.20 | 0.09 | 0.01 | 0.08 | 0.01 | = | 0.20 |
| 13 | 3040010362989 | 0 | 0 | 0 | 18.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 14 | 3040012545288 | 12 | 12 | 0 | 253.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 15 | 3110001014194 | 34 | 32 | 2 | 42.72 | 85.44 | 0.71 | 0.10 | 0.64 | 0.07 | = | 1.53 |
| 16 | 3120011176328 | 6 | 6 | 0 | 11.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 17 | 3439001321331 | 9 | 8 | 1 | 6.70 | 6.70 | 0.06 | 0.01 | 0.05 | 0.01 | = | 0.12 |
| 18 | 3439002528352 | 22 | 20 | 2 | 2.73 | 5.46 | 0.05 | 0.01 | 0.04 | 0.00 | = | 0.10 |
| 19 | 3740006414719 | 0 | 0 | 0 | 136.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 20 | 3805011783177 | 0 | 0 | 0 | 82.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 21 | 3805013644471 | 0 | 0 | 0 | 142.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 22 | 3895002526896 | 0 | 0 | 0 | 862.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 23 | 4010001293221 | 19 | 17 | 2 | 8.83 | 17.66 | 0.15 | 0.02 | 0.13 | 0.01 | = | 0.32 |
| 24 | 4010005852108 | 4 | 4 | 0 | 13.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 25 | 4010011096832 | 4 | 4 | 0 | 4.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 26 | 4030000019952 | 6 | 5 | 1 | 5.94 | 5.94 | 0.05 | 0.01 | 0.04 | 0.00 | = | 0.11 |
| 27 | 4030009487315 | 2 | 2 | 0 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 28 | 4030010446040 | 0 | 0 | 0 | 7.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 29 | 4030011420456 | 3 | 3 | 0 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 30 | 4110009247845 | 8 | 8 | 0 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 31 | 4130001539266 | 0 | 0 | 0 | 220.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 32 | 4130001938488 | 4 | 4 | 0 | 28.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 33 | 4130009510806 | 5 | 5 | 0 | 8.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 34 | 4320009224933 | 31 | 30 | 1 | 21.70 | 21.70 | 0.18 | 0.03 | 0.16 | 0.02 | = | 0.39 |
| 35 | 4320010981703 | 2 | 2 | 0 | 11.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 36 | 4330011310279 | 12 | 11 | 1 | 5.19 | 5.19 | 0.04 | 0.01 | 0.04 | 0.00 | = | 0.09 |
| 37 | 4330011643433 | 15 | 14 | 1 | 20.34 | 20.34 | 0.17 | 0.02 | 0.15 | 0.02 | = | 0.36 |
| 38 | 4330011903579 | 69 | 58 | 11 | 7.38 | 81.18 | 0.68 | 0.09 | 0.61 | 0.07 | = | 1.45 |
| 39 | 4710002000284 | 4 | 4 | 0 | 0.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 40 | 4710006099779 | 0 | 0 | 0 | 22.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 41 | 4710007409477 | 0 | 0 | 0 | 10.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 42 | 4710010053330 | 8 | 8 | 0 | 35.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 43 | 4710011883516 | 1 | 1 | 0 | 8.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 44 | 4710011888780 | 4 | 4 | 0 | 5.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 45 | 4710013229315 | 0 | 0 | 0 | 35.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 46 | 4720001776157 | 0 | 0 | 0 | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 47 | 4720002039658 | 0 | 0 | 0 | 10.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 48 | 4720004613796 | 4 | 4 | 0 | 364.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 49 | 4720007059542 | 0 | 0 | 0 | 289.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 50 | 4720009641433 | 5 | 5 | 0 | 26.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 51 | 4720009770316 | 3 | 3 | 0 | 4.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 52 | 4720010673891 | 5 | 5 | 0 | 116.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 53 | 4720010889650 | 4 | 4 | 0 | 7.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 54 | 4720011233812 | 0 | 0 | 0 | 6.93 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 55 | 4720011560549 | 0 | 0 | 0 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 56 | 4720011797614 | 6 | 6 | 0 | 26.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 57 | 4720011816796 | 4 | 4 | 0 | 19.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |

| 58 | 4720011929602 | 0 | 0 | 0 | 24.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 59 | 4720012122604 | 4 | 4 | 0 | 3.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 60 | 4720013252278 | 0 | 0 | 0 | 59.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 61 | 4730001188546 | 4 | 3 | 1 | 3.92 | 3.92 | 0.03 | 0.00 | 0.03 | 0.00 | = | 0.07 |
| 62 | 4730002028469 | 0 | 0 | 0 | 3.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 63 | 4730002660538 | 10 | 9 | 1 | 0.34 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.01 |
| 64 | 4730003962962 | 0 | 0 | 0 | 4.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 65 | 4730004926040 | 51 | 48 | 3 | 2.37 | 7.11 | 0.06 | 0.01 | 0.05 | 0.01 | = | 0.13 |
| 66 | 4730005416584 | 14 | 13 | 1 | 0.18 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 67 | 4730006047953 | 9 | 9 | 0 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 68 | 4730007205002 | 0 | 0 | 0 | 6.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 69 | 4730008137811 | 0 | 0 | 0 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 70 | 4730010057253 | 0 | 0 | 0 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 71 | 4730010707680 | 0 | 0 | 0 | 2.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 72 | 4730010836059 | 0 | 0 | 0 | 11.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 73 | 4730010900258 | 17 | 16 | 1 | 0.46 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.01 |
| 74 | 4730010996474 | 4 | 4 | 0 | 4.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 75 | 4730011173837 | 24 | 21 | 3 | 0.76 | 2.28 | 0.02 | 0.00 | 0.02 | 0.00 | = | 0.04 |
| 76 | 4730011196895 | 4 | 4 | 0 | 3.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 77 | 4730011340854 | 6 | 6 | 0 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 78 | 4730011549942 | 11 | 10 | 1 | 9.46 | 9.46 | 0.08 | 0.01 | 0.07 | 0.01 | = | 0.17 |
| 79 | 4820011589223 | 3 | 3 | 0 | 16.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 80 | 4930004707354 | 0 | 0 | 0 | 91.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 81 | 5305000213620 | 6 | 6 | 0 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 82 | 5305000425567 | 22 | 21 | 1 | 0.19 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 83 | 5305000593664 | 9 | 8 | 1 | 14.88 | 14.88 | 0.12 | 0.02 | 0.11 | 0.01 | = | 0.27 |

73.95

# APPENDIX B - TRANSPORTATION COSTS

**MONTHLY TRANSPORTATION REQUIREMENT**          **MONTHLY INCREMENTAL TRANSPORTATION COST**

| ITEM NO | NSN | UNIT WEIGHT (LBS) | AMRD | PREMIUM RATE | PREMIUM COST | | GROUND RATE | GROUND COST | | TRANSPORTATION COST |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2510007368622 | 0.08 | 0 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 2 | 2520011272624 | 0.20 | 1 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 3 | 2520011374843 | 1.37 | 0 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 4 | 2530003401405 | 0.02 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 5 | 2530011271677 | 0.01 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 6 | 2540010627132 | 0.01 | 12 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 7 | 2540011026863 | 0.20 | 0 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 8 | 2540011860969 | 3.00 | 56 | 59.67 | 119.34 | - | 19.09 | 38.18 | = | 81.16 |
| 9 | 2590011689871 | 0.06 | 12 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 10 | 2590011905604 | 4.50 | 1 | 3.57 | 7.14 | - | 0.46 | 0.92 | = | 6.22 |
| 11 | 2590012505009 | 0.02 | 0 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 12 | 2940005370946 | 0.10 | 41 | 3.57 | 7.14 | - | 0.46 | 0.92 | = | 6.22 |
| 13 | 3040010362989 | 0.00 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 14 | 3040012545288 | 0.00 | 3 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 15 | 3110001014194 | 8.00 | 9 | 26.67 | 53.34 | - | 8.28 | 16.56 | = | 36.78 |
| 16 | 3120011176328 | 0.06 | 2 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 17 | 3439001321331 | 0.55 | 2 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 18 | 3439002528352 | 1.01 | 7 | 3.62 | 7.24 | - | 0.69 | 1.38 | = | 5.86 |
| 19 | 3740006414719 | 11.00 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 20 | 3805011783177 | 100.00 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 21 | 3805013644471 | 2.40 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 22 | 3895002526896 | 45.00 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 23 | 4010001293221 | 5.68 | 4 | 9.12 | 18.24 | - | 2.76 | 5.52 | = | 12.72 |
| 24 | 4010005852108 | 0.10 | 1 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 25 | 4010011096832 | 1.75 | 1 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 26 | 4030000019952 | 0.22 | 1 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 27 | 4030009487315 | 0.01 | 1 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 28 | 4030010446040 | 0.10 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 29 | 4030011420456 | 0.10 | 1 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 30 | 4110009247845 | 0.05 | 1 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 31 | 4130001539266 | 0.03 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 32 | 4130001938488 | 0.20 | 1 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 33 | 4130009510806 | 2.00 | 1 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 34 | 4320009224933 | 0.25 | 5 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 35 | 4320010981703 | 0.13 | 0 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 36 | 4330011310279 | 1.00 | 3 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 37 | 4330011643433 | 2.40 | 4 | 3.67 | 7.34 | - | 0.92 | 1.84 | = | 5.50 |
| 38 | 4330011903579 | 0.43 | 16 | 3.62 | 7.24 | - | 0.69 | 1.38 | = | 5.86 |
| 39 | 4710002000284 | 1.00 | 1 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 40 | 4710006099779 | 0.50 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 41 | 4710007409477 | 1.49 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 42 | 4710010053330 | 0.50 | 2 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 43 | 4710011883516 | 0.24 | 0 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 44 | 4710011888780 | 1.49 | 1 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 45 | 4710013229315 | 8.76 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 46 | 4720001776157 | 1.02 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 47 | 4720002039658 | 0.25 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 48 | 4720004613796 | 54.00 | 1 | 19.92 | 39.84 | - | 6.21 | 12.42 | = | 27.42 |
| 49 | 4720007059542 | 1.00 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 50 | 4720009641433 | 31.00 | 1 | 10.92 | 21.84 | - | 3.45 | 6.90 | = | 14.94 |
| 51 | 4720009770316 | 0.26 | 1 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 52 | 4720010673891 | 0.00 | 1 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 53 | 4720010889650 | 0.12 | 1 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 54 | 4720011233812 | 0.63 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 55 | 4720011560549 | 0.10 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 56 | 4720011797614 | 0.05 | 2 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 57 | 4720011816796 | 0.50 | 1 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 58 | 4720011929602 | 0.00 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 59 | 4720012122604 | 0.10 | 1 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 60 | 4720013252278 | 0.01 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 61 | 4730001188546 | 1.00 | 1 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 62 | 4730002028469 | 0.30 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 63 | 4730002660538 | 0.08 | 3 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 64 | 4730003962962 | 0.01 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 65 | 4730004926040 | 0.13 | 16 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 66 | 4730005416584 | 0.10 | 5 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 67 | 4730006047953 | 0.10 | 2 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 68 | 4730007205002 | 0.54 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 69 | 4730008137811 | 0.01 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 70 | 4730010057253 | 0.01 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 71 | 4730010707680 | 0.10 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 72 | 4730010836059 | 0.00 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 73 | 4730010900258 | 0.01 | 5 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 74 | 4730010996474 | 0.15 | 1 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 75 | 4730011173837 | 0.06 | 5 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 76 | 4730011196895 | 0.30 | 1 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 77 | 4730011340854 | 0.01 | 2 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 78 | 4730011549942 | 0.50 | 3 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 79 | 4820011589223 | 0.00 | 1 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 80 | 4930004707354 | 0.01 | 0 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 81 | 5305000213620 | 0.03 | 2 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 82 | 5305000425567 | 0.01 | 6 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |
| 83 | 5305000593664 | 0.01 | 3 | 3.50 | 7.00 | - | 0.23 | 0.46 | = | 6.54 |

503.52

## APPENDIX B - CONSUMABLE TRADEOFF
### MONTHLY INCREMENTAL INVENTORY / TRANSPORTATION TRADEOFF

| ITEM NO | NSN | MONTHLY INVENTORY HOLDING COST | | MONTHLY TRANSPORTATION COST | | MONTHLY INV-TRAN TRADEOFF |
|---|---|---|---|---|---|---|
| 1 | 2510007368622 | 0.00 | - | 6.54 | = | (6.54) |
| 2 | 2520011272624 | 0.31 | - | 6.54 | = | (6.23) |
| 3 | 2520011374843 | 0.00 | - | 6.54 | = | (6.54) |
| 4 | 2530003401405 | 0.00 | - | 0.00 | = | 0.00 |
| 5 | 2530011271677 | 0.00 | - | 0.00 | = | 0.00 |
| 6 | 2540010627132 | 0.07 | - | 6.54 | = | (6.47) |
| 7 | 2540011026863 | 0.24 | - | 6.54 | = | (6.30) |
| 8 | 2540011860969 | 66.87 | - | 81.16 | = | (14.29) |
| 9 | 2590011689871 | 1.11 | - | 6.54 | = | (5.43) |
| 10 | 2590011905604 | 0.00 | - | 6.22 | = | (6.22) |
| 11 | 2590012505009 | 0.00 | - | 6.54 | = | (6.54) |
| 12 | 2940005370946 | 0.20 | - | 6.22 | = | (6.02) |
| 13 | 3040010362989 | 0.00 | - | 0.00 | = | 0.00 |
| 14 | 3040012545288 | 0.00 | - | 6.54 | = | (6.54) |
| 15 | 3110001014194 | 1.53 | - | 36.78 | = | (35.25) |
| 16 | 3120011176328 | 0.00 | - | 6.54 | = | (6.54) |
| 17 | 3439001321331 | 0.12 | - | 6.54 | = | (6.42) |
| 18 | 3439002528352 | 0.10 | - | 5.86 | = | (5.76) |
| 19 | 3740006414719 | 0.00 | - | 0.00 | = | 0.00 |
| 20 | 3805011783177 | 0.00 | - | 0.00 | = | 0.00 |
| 21 | 3805013644471 | 0.00 | - | 0.00 | = | 0.00 |
| 22 | 3895002526896 | 0.00 | - | 0.00 | = | 0.00 |
| 23 | 4010001293221 | 0.32 | - | 12.72 | = | (12.40) |
| 24 | 4010005852108 | 0.00 | - | 6.54 | = | (6.54) |
| 25 | 4010011096832 | 0.00 | - | 6.54 | = | (6.54) |
| 26 | 4030000019952 | 0.11 | - | 6.54 | = | (6.43) |
| 27 | 4030009487315 | 0.00 | - | 6.54 | = | (6.54) |
| 28 | 4030010446040 | 0.00 | - | 0.00 | = | 0.00 |
| 29 | 4030011420456 | 0.00 | - | 6.54 | = | (6.54) |
| 30 | 4110009247845 | 0.00 | - | 6.54 | = | (6.54) |
| 31 | 4130001539266 | 0.00 | - | 0.00 | = | 0.00 |
| 32 | 4130001938488 | 0.00 | - | 6.54 | = | (6.54) |
| 33 | 4130009510806 | 0.00 | - | 6.54 | = | (6.54) |
| 34 | 4320009224933 | 0.39 | - | 6.54 | = | (6.15) |
| 35 | 4320010981703 | 0.00 | - | 6.54 | = | (6.54) |
| 36 | 4330011310279 | 0.09 | - | 6.54 | = | (6.45) |
| 37 | 4330011643433 | 0.36 | - | 5.50 | = | (5.14) |
| 38 | 4330011903579 | 1.45 | - | 5.86 | = | (4.41) |
| 39 | 4710002000284 | 0.00 | - | 6.54 | = | (6.54) |
| 40 | 4710006099779 | 0.00 | - | 0.00 | = | 0.00 |
| 41 | 4710007409477 | 0.00 | - | 0.00 | = | 0.00 |
| 42 | 4710010053330 | 0.00 | - | 6.54 | = | (6.54) |
| 43 | 4710011883516 | 0.00 | - | 6.54 | = | (6.54) |
| 44 | 4710011888780 | 0.00 | - | 6.54 | = | (6.54) |
| 45 | 4710013229315 | 0.00 | - | 0.00 | = | 0.00 |
| 46 | 4720001776157 | 0.00 | - | 0.00 | = | 0.00 |
| 47 | 4720002039658 | 0.00 | - | 0.00 | = | 0.00 |
| 48 | 4720004613796 | 0.00 | - | 27.42 | = | (27.42) |
| 49 | 4720007059542 | 0.00 | - | 0.00 | = | 0.00 |
| 50 | 4720009641433 | 0.00 | - | 14.94 | = | (14.94) |
| 51 | 4720009770316 | 0.00 | - | 6.54 | = | (6.54) |

# APPENDIX B - CONSUMABLE TRADEOFF

| | | | | | | |
|---|---|---|---|---|---|---|
| 52 | 4720010673891 | 0.00 | - | 6.54 | = | (6.54) |
| 53 | 4720010889650 | 0.00 | - | 6.54 | = | (6.54) |
| 54 | 4720011233812 | 0.00 | - | 0.00 | = | 0.00 |
| 55 | 4720011560549 | 0.00 | - | 0.00 | = | 0.00 |
| 56 | 4720011797614 | 0.00 | - | 6.54 | = | (6.54) |
| 57 | 4720011816796 | 0.00 | - | 6.54 | = | (6.54) |
| 58 | 4720011929602 | 0.00 | - | 0.00 | = | 0.00 |
| 59 | 4720012122604 | 0.00 | - | 6.54 | = | (6.54) |
| 60 | 4720013252278 | 0.00 | - | 0.00 | = | 0.00 |
| 61 | 4730001188546 | 0.07 | - | 6.54 | = | (6.47) |
| 62 | 4730002028469 | 0.00 | - | 0.00 | = | 0.00 |
| 63 | 4730002660538 | 0.01 | - | 6.54 | = | (6.53) |
| 64 | 4730003962962 | 0.00 | - | 0.00 | = | 0.00 |
| 65 | 4730004926040 | 0.13 | - | 6.54 | = | (6.41) |
| 66 | 4730005416584 | 0.00 | - | 6.54 | = | (6.54) |
| 67 | 4730006047953 | 0.00 | - | 6.54 | = | (6.54) |
| 68 | 4730007205002 | 0.00 | - | 0.00 | = | 0.00 |
| 69 | 4730008137811 | 0.00 | - | 0.00 | = | 0.00 |
| 70 | 4730010057253 | 0.00 | - | 0.00 | = | 0.00 |
| 71 | 4730010707680 | 0.00 | - | 0.00 | = | 0.00 |
| 72 | 4730010836059 | 0.00 | - | 0.00 | = | 0.00 |
| 73 | 4730010900258 | 0.01 | - | 6.54 | = | (6.53) |
| 74 | 4730010996474 | 0.00 | - | 6.54 | = | (6.54) |
| 75 | 4730011173837 | 0.04 | - | 6.54 | = | (6.50) |
| 76 | 4730011196895 | 0.00 | - | 6.54 | = | (6.54) |
| 77 | 4730011340854 | 0.00 | - | 6.54 | = | (6.54) |
| 78 | 4730011549942 | 0.17 | - | 6.54 | = | (6.37) |
| 79 | 4820011589223 | 0.00 | - | 6.54 | = | (6.54) |
| 80 | 4930004707354 | 0.00 | - | 0.00 | = | 0.00 |
| 81 | 5305000213620 | 0.00 | - | 6.54 | = | (6.54) |
| 82 | 5305000425567 | 0.00 | - | 6.54 | = | (6.54) |
| 83 | 5305000593664 | 0.27 | - | 6.54 | = | (6.27) |

| | | | |
|---|---|---|---|
| 73.95 | - | 503.52 | = | (429.57) |

# APPENDIX C - CONSUMABLE DESCRIPTIONS

| ITEM NO | NSN | NOMENCLATURE | CEC | SOS | SD | CITY | STATE | PRICE ($) | WEIGHT (LBS) | CUBE (FT) | LENGTH (IN) | WIDTH (IN) | HEIGHT (IN) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2510007368622 | BRACKET AS | 4 | S9C | SAC | MECHANICSBURG | PA | 3.36 | 0.0800 | 0.0060 | 0 | 0 | 0 |
| 2 | 2520011272624 | SHAFT,SPEE | 5 | S9C | SAC | MECHANICSBURG | PA | 17.41 | 0.2000 | 0.0350 | 0 | 0 | 0 |
| 3 | 2520011374843 | SHIELD AND | 5 | S9C | SAC | MECHANICSBURG | PA | 3.73 | 1.3700 | 0.0080 | 0 | 0 | 0 |
| 4 | 2530003401405 | BLEEDER VA | 5 | S9C | SAC | MECHANICSBURG | PA | 0.42 | 0.0200 | 0.0010 | 0 | 0 | 0 |
| 5 | 2530011271677 | VALVE,BRAK | 5 | S9C | SAC | MECHANICSBURG | PA | 117.92 | 0.0100 | 0.0001 | 0 | 0 | 0 |
| 6 | 2540010627132 | DRIVE ADAP | 5 | S9C | SAC | MECHANICSBURG | PA | 1.95 | 0.0100 | 0.0012 | 2 | 1 | 1 |
| 7 | 2540011026863 | COVER,HALF | 5 | S9C | SNC | NEW CUMBERLAND | PA | 13.53 | 0.2000 | 0.0104 | 3 | 3 | 2 |
| 8 | 2540011860969 | MOTOR,WIND | 3 | S9C | SAC | MECHANICSBURG | PA | 207.92 | 3.0000 | 0.1090 | 0 | 0 | 0 |
| 9 | 2590011689871 | CONTROL AS | 5 | S9C | SAC | MECHANICSBURG | PA | 20.64 | 0.0600 | 0.2639 | 19 | 12 | 2 |
| 10 | 2590011905604 | ANNUNCIATO | 5 | S9C | SAC | MECHANICSBURG | PA | 1199.67 | 4.5000 | 0.0960 | 0 | 0 | 0 |
| 11 | 2590012505009 | ROD,RETAIN | 2 | S9C | SAC | MECHANICSBURG | PA | 18.41 | 0.0200 | 0.0050 | 0 | 0 | 0 |
| 12 | 2940005370946 | FILTER ELE | 2 | S9C | SAC | MECHANICSBURG | PA | 1.6 | 0.1000 | 0.0060 | 0 | 0 | 0 |
| 13 | 3040010362989 | CONNECTING | 5 | S9C | SAC | MECHANICSBURG | PA | 18.32 | 0.0000 | 0.0000 | 0 | 0 | 0 |
| 14 | 3040012545288 | SHAFT,SHOU | 5 | S9C | SAC | MECHANICSBURG | PA | 253.91 | 0.0000 | 0.0000 | 0 | 0 | 0 |
| 15 | 3110001014194 | BEARING,RO | 5 | S9I | SAI | MECHANICSBURG | PA | 42.72 | 8.0000 | 0.0660 | 0 | 0 | 0 |
| 16 | 3120011176328 | BUSHING,SL | 5 | S9I | SAI | MECHANICSBURG | PA | 11.98 | 0.0600 | 0.0020 | 0 | 0 | 0 |
| 17 | 3439001321331 | DESOLDERIN | 2 | S9G | SAI | MECHANICSBURG | PA | 6.7 | 0.5500 | 0.0080 | 0 | 0 | 0 |
| 18 | 3439002528352 | ROD,WELDIN | 2 | S9G | SAI | MECHANICSBURG | PA | 2.73 | 1.0100 | 0.0000 | 0 | 0 | 0 |
| 19 | 3740006414719 | SPRAYER,PE | 1 | S9G | SAG | MECHANICSBURG | PA | 136.9 | 11.0000 | 1.3889 | 24 | 10 | 10 |
| 20 | 3805011783177 | CUTTING ED | 5 | S9I | SAC | MECHANICSBURG | PA | 82.48 | 100.0000 | 1.2280 | 0 | 0 | 0 |
| 21 | 3805013644471 | PARTS KIT, | 5 | S9I | SAI | MECHANICSBURG | PA | 142.2 | 2.4000 | 0.3240 | 0 | 0 | 0 |
| 22 | 3895002526896 | REELING MA | 1 | S9I | SAI | MECHANICSBURG | PA | 862.48 | 45.0000 | 24.4444 | 33 | 32 | 40 |
| 23 | 4010001293221 | CHAIN,WELD | 5 | S9G | SAI | MECHANICSBURG | PA | 8.83 | 5.6800 | 0.1250 | 0 | 0 | 0 |
| 24 | 4010005852108 | CHAIN,WELD | 5 | S9G | SAI | MECHANICSBURG | PA | 13.01 | 0.1000 | 0.0023 | 2 | 2 | 1 |
| 25 | 4010011096832 | WIRE ROPE | 5 | S9G | SAG | MECHANICSBURG | PA | 4.5 | 1.7500 | 0.2000 | 0 | 0 | 0 |
| 26 | 4030000019952 | PLUG,WIRE | 5 | S9G | SAG | MECHANICSBURG | PA | 5.94 | 0.2200 | 0.0012 | 2 | 1 | 1 |
| 27 | 4030009487315 | HOOK,CHAIN | 5 | S9G | SNG | NEW CUMBERLAND | PA | 0.16 | 0.0100 | 0.0010 | 0 | 0 | 0 |
| 28 | 4030010446040 | SHACKLE | 5 | S9G | SAI | MECHANICSBURG | PA | 7.84 | 0.1000 | 0.0070 | 0 | 0 | 0 |
| 29 | 4030011420456 | SWAGING SL | 2 | S9G | SAI | MECHANICSBURG | PA | 0.48 | 0.1000 | 0.0010 | 0 | 0 | 0 |
| 30 | 4110009247845 | TRAY,ICE C | 5 | S9I | SAI | MECHANICSBURG | PA | 0.83 | 0.0500 | 0.0060 | 0 | 0 | 0 |
| 31 | 4130001539266 | PANEL,CONT | 5 | S9I | SAI | MECHANICSBURG | PA | 220.23 | 0.0300 | 0.0000 | 0 | 0 | 0 |
| 32 | 4130001938488 | FILTER ELE | 5 | S9I | SAI | MECHANICSBURG | PA | 28.63 | 0.2000 | 0.0250 | 0 | 0 | 0 |
| 33 | 4130009510806 | FILTER ELE | 5 | S9I | SAG | MECHANICSBURG | PA | 8.45 | 2.0000 | 0.0110 | 0 | 0 | 0 |
| 34 | 4320009224933 | COVER ASSE | 5 | S9C | SAC | MECHANICSBURG | PA | 21.7 | 0.2500 | 0.0140 | 0 | 0 | 0 |
| 35 | 4320010981703 | PARTS KIT, | 5 | S9C | SAC | MECHANICSBURG | PA | 11.36 | 0.0100 | 0.0140 | 0 | 0 | 0 |
| 36 | 4330011310279 | PARTS KIT, | 5 | S9C | SAC | MECHANICSBURG | PA | 5.19 | 1.0000 | 0.0700 | 0 | 0 | 0 |
| 37 | 4330011643433 | FILTER ELE | 5 | S9C | SAC | MECHANICSBURG | PA | 20.34 | 2.4000 | 0.1300 | 0 | 0 | 0 |
| 38 | 4330011903579 | FILTER ELE | 3 | S9C | SAC | MECHANICSBURG | PA | 7.38 | 0.4300 | 0.0093 | 4 | 2 | 2 |
| 39 | 4710002000284 | TUBE,METAL | 5 | S9C | SAC | MECHANICSBURG | PA | 0.85 | 1.0000 | 0.0060 | 0 | 0 | 0 |
| 40 | 4710006099779 | TUBE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 22.66 | 0.5000 | 0.2810 | 0 | 0 | 0 |
| 41 | 4710007409477 | TUBE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 10.92 | 1.4900 | 0.7494 | 37 | 7 | 5 |
| 42 | 4710010053330 | TUBE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 35.78 | 0.5000 | 0.0000 | 0 | 0 | 0 |
| 43 | 4710011883516 | TUBE,BENT, | 5 | S9C | SAC | MECHANICSBURG | PA | 8.92 | 0.2400 | 0.1597 | 0 | 0 | 0 |
| 44 | 4710011888780 | TUBE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 5.49 | 1.4900 | 0.5494 | 0 | 0 | 0 |
| 45 | 4710013229315 | TUBE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 35.19 | 8.7600 | 1.3704 | 37 | 8 | 8 |
| 46 | 4720001776157 | HOSE,PREFO | 5 | S9C | SAC | MECHANICSBURG | PA | 6.69 | 1.0200 | 0.1111 | 12 | 4 | 4 |
| 47 | 4720002039658 | HOSE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 10.14 | 0.2500 | 0.0100 | 0 | 0 | 0 |
| 48 | 4720004613796 | HOSE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 364.52 | 54.0000 | 2.5000 | 0 | 0 | 0 |
| 49 | 4720007059542 | HOSE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 289.91 | 1.0000 | 0.0080 | 0 | 0 | 0 |
| 50 | 4720009641433 | TUBING,NON | 5 | S9C | SAC | MECHANICSBURG | PA | 26.2 | 31.0000 | 3.0000 | 0 | 0 | 0 |
| 51 | 4720009770316 | HOSE,PREFO | 5 | S9C | SAC | MECHANICSBURG | PA | 4.96 | 0.2600 | 0.0260 | 0 | 0 | 0 |
| 52 | 4720010673891 | HOSE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 116.7 | 0.0000 | 0.0000 | 0 | 0 | 0 |
| 53 | 4720010889650 | HOSE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 7.84 | 0.1200 | 0.1250 | 0 | 0 | 0 |
| 54 | 4720011233812 | HOSE,NONME | 5 | S9C | SAC | MECHANICSBURG | PA | 6.93 | 0.6300 | 0.0140 | 0 | 0 | 0 |
| 55 | 4720011560549 | HOSE,NONME | 2 | S9C | SAC | MECHANICSBURG | PA | 1.4 | 0.1000 | 0.0030 | 0 | 0 | 0 |
| 56 | 4720011797614 | HOSE ASSEM | 2 | S9C | SAC | MECHANICSBURG | PA | 26.13 | 0.0500 | 0.0180 | 0 | 0 | 0 |
| 57 | 4720011816796 | HOSE,PREFO | 5 | S9C | SAC | MECHANICSBURG | PA | 19.45 | 0.5000 | 0.0310 | 0 | 0 | 0 |
| 58 | 4720011929602 | HOSE ASSEM | 5 | S9C | SAC | MECHANICSBURG | PA | 24.65 | 0.0000 | 0.0000 | 0 | 0 | 0 |
| 59 | 4720012122604 | HOSE,NONME | 5 | S9C | SAC | MECHANICSBURG | PA | 3.62 | 0.1000 | 0.0580 | 0 | 0 | 0 |
| 60 | 4720013252278 | HOSE,NONME | 5 | S9C | SAC | MECHANICSBURG | PA | 59.58 | 0.0100 | 0.0000 | 0 | 0 | 0 |
| 61 | 4730001188546 | ELBOW,TUBE | 5 | S9C | SAC | MECHANICSBURG | PA | 3.92 | 1.0000 | 0.0020 | 0 | 0 | 0 |
| 62 | 4730002028469 | ADAPTER,ST | 4 | S9C | SAC | MECHANICSBURG | PA | 3.16 | 0.3000 | 0.0220 | 0 | 0 | 0 |
| 63 | 4730002660538 | ADAPTER,ST | 4 | S9C | SAC | MECHANICSBURG | PA | 0.34 | 0.0800 | 0.0100 | 0 | 0 | 0 |
| 64 | 4730003962962 | CONNECTOR, | 5 | S9C | SNC | NEW CUMBERLAND | PA | 4.76 | 0.0100 | 0.0010 | 0 | 0 | 0 |
| 65 | 4730004926040 | ADAPTER,ST | 3 | S9C | SAC | MECHANICSBURG | PA | 2.37 | 0.1300 | 0.0012 | 2 | 1 | 1 |
| 66 | 4730005416584 | CLAMP,HOSE | 4 | S9C | SAC | MECHANICSBURG | PA | 0.18 | 0.1000 | 0.0010 | 0 | 0 | 0 |
| 67 | 4730006047953 | PLUG,PIPE | 5 | S9C | SAC | MECHANICSBURG | PA | 0.53 | 0.1000 | 0.0090 | 0 | 0 | 0 |
| 68 | 4730007205002 | REDUCER,PI | 2 | S9C | SAC | MECHANICSBURG | PA | 6.71 | 0.5400 | 0.0020 | 0 | 0 | 0 |
| 69 | 4730008137811 | TEE,PIPE T | 5 | S9C | SAC | MECHANICSBURG | PA | 2.71 | 0.0100 | 0.0010 | 0 | 0 | 0 |
| 70 | 4730010057253 | CLAMP,HOSE | 5 | S9C | SAC | MECHANICSBURG | PA | 0.22 | 0.0100 | 0.0010 | 0 | 0 | 0 |
| 71 | 4730010707680 | ELBOW,PIPE | 5 | S9C | SAC | MECHANICSBURG | PA | 2.02 | 0.1000 | 0.0010 | 0 | 0 | 0 |
| 72 | 4730010836059 | CLAMP,HOSE | 5 | S9C | SAC | MECHANICSBURG | PA | 11.68 | 0.0000 | 0.0000 | 0 | 0 | 0 |
| 73 | 4730010900258 | CLAMP,HOSE | 5 | S9C | SAC | MECHANICSBURG | PA | 0.46 | 0.1000 | 0.0010 | 0 | 0 | 0 |
| 74 | 4730010996474 | PLUG,TUBE | 5 | S9C | SAC | MECHANICSBURG | PA | 4 | 0.1500 | 0.0104 | 3 | 3 | 2 |
| 75 | 4730011173837 | CLAMP,HOSE | 5 | S9C | SNC | NEW CUMBERLAND | PA | 0.76 | 0.0600 | 0.0090 | 0 | 0 | 0 |
| 76 | 4730011196895 | TEE,PIPE T | 5 | S9C | SAC | MECHANICSBURG | PA | 3.36 | 0.3000 | 0.0020 | 0 | 0 | 0 |
| 77 | 4730011340854 | ADAPTER,ST | 5 | S9C | SAC | MECHANICSBURG | PA | 1.06 | 0.0100 | 0.0010 | 0 | 0 | 0 |
| 78 | 4730011549942 | PLUG,PIPE | 5 | S9C | SAC | MECHANICSBURG | PA | 9.46 | 0.5000 | 0.0050 | 0 | 0 | 0 |
| 79 | 4820011589223 | COCK,DRAIN | 4 | S9C | SAC | MECHANICSBURG | PA | 16.52 | 0.0000 | 0.0000 | 0 | 0 | 0 |
| 80 | 4930004707354 | SLEEVE ASS | 5 | S9C | SAC | MECHANICSBURG | PA | 91.35 | 0.0100 | 0.0010 | 0 | 0 | 0 |
| 81 | 5305000213620 | SCREW,CAP, | 2 | S9I | SAI | MECHANICSBURG | PA | 0.09 | 0.0300 | 0.0010 | 0 | 0 | 0 |
| 82 | 5305000425567 | SCREW,ASSE | 5 | S9I | SAI | MECHANICSBURG | PA | 0.19 | 0.0100 | 0.0010 | 0 | 0 | 0 |
| 83 | 5305000593664 | SCREW,MACH | 3 | S9I | SAI | MECHANICSBURG | PA | 14.88 | 0.0100 | 0.0010 | 0 | 0 | 0 |

103

# APPENDIX C - CONSUMABLE RO EQUATION

Ground Simulation

$$RO = [(OST + SL + OL) / 30] \times AMRD$$

| ITEM NO | NSN | OST | SL | OL | AMRD | RO |
|---|---|---|---|---|---|---|
| 1 | 2510007368622 | 24 | 15 | 60 | 0 | 2 |
| 2 | 2520011272624 | 13 | 30 | 60 | 1 | 6 |
| 3 | 2520011374843 | 13 | 30 | 60 | 0 | 2 |
| 4 | 2530003401405 | 5 | 30 | 60 | 0 | 0 |
| 5 | 2530011271677 | 5 | 30 | 60 | 0 | 0 |
| 6 | 2540010627132 | 12 | 30 | 60 | 12 | 40 |
| 7 | 2540011026863 | 21 | 30 | 60 | 0 | 2 |
| 8 | 2540011860969 | 25 | 15 | 60 | 54 | 181 |
| 9 | 2590011689871 | 17 | 30 | 60 | 11 | 41 |
| 10 | 2590011905604 | 18 | 30 | 60 | 1 | 4 |
| 11 | 2590012505009 | 21 | 15 | 60 | 0 | 1 |
| 12 | 2940005370946 | 21 | 15 | 60 | 41 | 130 |
| 13 | 3040010362989 | 16 | 30 | 60 | 0 | 0 |
| 14 | 3040012545288 | 12 | 30 | 60 | 3 | 12 |
| 15 | 3110001014194 | 20 | 30 | 60 | 9 | 34 |
| 16 | 3120011176328 | 18 | 30 | 60 | 2 | 6 |
| 17 | 3439001321331 | 23 | 15 | 60 | 2 | 8 |
| 18 | 3439002528352 | 14 | 15 | 60 | 7 | 22 |
| 19 | 3740006414719 | 5 | 15 | 60 | 0 | 0 |
| 20 | 3805011783177 | 22 | 30 | 60 | 0 | 0 |
| 21 | 3805013644471 | 5 | 30 | 60 | 0 | 0 |
| 22 | 3895002526896 | 5 | 15 | 60 | 0 | 0 |
| 23 | 4010001293221 | 35 | 30 | 60 | 4 | 18 |
| 24 | 4010005852108 | 14 | 30 | 60 | 1 | 4 |
| 25 | 4010011096832 | 21 | 30 | 60 | 1 | 4 |
| 26 | 4030000019952 | 23 | 30 | 60 | 1 | 5 |
| 27 | 4030009487315 | 21 | 30 | 60 | 1 | 3 |
| 28 | 4030010446040 | 23 | 30 | 60 | 0 | 0 |
| 29 | 4030011420456 | 13 | 15 | 60 | 1 | 3 |
| 30 | 4110009247845 | 163 | 30 | 60 | 1 | 8 |
| 31 | 4130001539266 | 15 | 30 | 60 | 0 | 0 |
| 32 | 4130001938488 | 16 | 30 | 60 | 1 | 4 |
| 33 | 4130009510806 | 34 | 30 | 60 | 1 | 5 |
| 34 | 4320009224933 | 102 | 30 | 60 | 5 | 30 |
| 35 | 4320010981703 | 14 | 30 | 60 | 0 | 2 |
| 36 | 4330011310279 | 22 | 30 | 60 | 3 | 12 |
| 37 | 4330011643433 | 25 | 30 | 60 | 4 | 15 |
| 38 | 4330011903579 | 55 | 15 | 60 | 15 | 66 |
| 39 | 4710002000284 | 24 | 30 | 60 | 1 | 4 |
| 40 | 4710006099779 | 12 | 30 | 60 | 0 | 0 |
| 41 | 4710007409477 | 5 | 30 | 60 | 0 | 0 |
| 42 | 4710010053330 | 57 | 30 | 60 | 2 | 9 |
| 43 | 4710011883516 | 16 | 30 | 60 | 0 | 1 |
| 44 | 4710011888780 | 16 | 30 | 60 | 1 | 4 |
| 45 | 4710013229315 | 5 | 30 | 60 | 0 | 0 |
| 46 | 4720001776157 | 12 | 30 | 60 | 0 | 0 |
| 47 | 4720002039658 | 5 | 30 | 60 | 0 | 0 |
| 48 | 4720004613796 | 23 | 30 | 60 | 1 | 4 |
| 49 | 4720007059542 | 18 | 30 | 60 | 0 | 0 |
| 50 | 4720009641433 | 42 | 30 | 60 | 1 | 5 |
| 51 | 4720009770316 | 21 | 30 | 60 | 1 | 3 |
| 52 | 4720010673891 | 42 | 30 | 60 | 1 | 5 |

104

# APPENDIX C - CONSUMABLE RO EQUATION

| | | | | | | |
|---|---|---|---|---|---|---|
| 53 | 4720010889650 | 20 | 30 | 60 | 1 | 4 |
| 54 | 4720011233812 | 5 | 30 | 60 | 0 | 0 |
| 55 | 4720011560549 | 5 | 15 | 60 | 0 | 0 |
| 56 | 4720011797614 | 8 | 15 | 60 | 2 | 6 |
| 57 | 4720011816796 | 15 | 30 | 60 | 1 | 4 |
| 58 | 4720011929602 | 15 | 30 | 60 | 0 | 0 |
| 59 | 4720012122604 | 14 | 30 | 60 | 1 | 4 |
| 60 | 4720013252278 | 5 | 30 | 60 | 0 | 0 |
| 61 | 4730001188546 | 18 | 30 | 60 | 1 | 4 |
| 62 | 4730002028469 | 15 | 15 | 60 | 0 | 0 |
| 63 | 4730002660538 | 13 | 15 | 60 | 3 | 10 |
| 64 | 4730003962962 | 14 | 30 | 60 | 0 | 0 |
| 65 | 4730004926040 | 21 | 15 | 60 | 16 | 52 |
| 66 | 4730005416584 | 14 | 15 | 60 | 5 | 14 |
| 67 | 4730006047953 | 18 | 30 | 60 | 3 | 10 |
| 68 | 4730007205002 | 21 | 15 | 60 | 0 | 0 |
| 69 | 4730008137811 | 15 | 30 | 60 | 0 | 0 |
| 70 | 4730010057253 | 5 | 30 | 60 | 0 | 0 |
| 71 | 4730010707680 | 5 | 30 | 60 | 0 | 0 |
| 72 | 4730010836059 | 13 | 30 | 60 | 0 | 0 |
| 73 | 4730010900258 | 17 | 30 | 60 | 5 | 17 |
| 74 | 4730010996474 | 19 | 30 | 60 | 1 | 4 |
| 75 | 4730011173837 | 48 | 30 | 60 | 5 | 24 |
| 76 | 4730011196895 | 17 | 30 | 60 | 1 | 4 |
| 77 | 4730011340854 | 12 | 30 | 60 | 2 | 6 |
| 78 | 4730011549942 | 15 | 30 | 60 | 3 | 11 |
| 79 | 4820011589223 | 14 | 15 | 60 | 1 | 3 |
| 80 | 4930004707354 | 13 | 30 | 60 | 0 | 0 |
| 81 | 5305000213620 | 14 | 15 | 60 | 2 | 6 |
| 82 | 5305000425567 | 26 | 30 | 60 | 6 | 22 |
| 83 | 5305000593664 | 14 | 15 | 60 | 3 | 9 |

RO = Requisitioning Objective
RR = Repair Rate
RCT = Repair Cycle Time
OST=Order Ship Time
SL=Safety Level
OL=Operating Level
AMRD=Average Monthtly Recurring

105

# APPENDIX C - CONSUMABLE RO EQUATION

Premium Simulation

$$RO = [(OST + SL + OL) / 30] \times AMRD$$

| ITEM NO | NSN | OST | SL | OL | AMRD | RO |
|---|---|---|---|---|---|---|
| 1 | 2510007368622 | 14 | 15 | 60 | 0 | 2 |
| 2 | 2520011272624 | 7 | 30 | 60 | 1 | 5 |
| 3 | 2520011374843 | 9 | 30 | 60 | 0 | 2 |
| 4 | 2530003401405 | 5 | 30 | 60 | 0 | 0 |
| 5 | 2530011271677 | 5 | 30 | 60 | 0 | 0 |
| 6 | 2540010627132 | 8 | 30 | 60 | 12 | 39 |
| 7 | 2540011026863 | 9 | 30 | 60 | 0 | 2 |
| 8 | 2540011860969 | 15 | 15 | 60 | 54 | 162 |
| 9 | 2590011689871 | 10 | 30 | 60 | 11 | 38 |
| 10 | 2590011905604 | 13 | 30 | 60 | 1 | 4 |
| 11 | 2590012505009 | 16 | 15 | 60 | 0 | 1 |
| 12 | 2940005370946 | 16 | 15 | 60 | 41 | 123 |
| 13 | 3040010362989 | 16 | 30 | 60 | 0 | 0 |
| 14 | 3040012545288 | 12 | 30 | 60 | 3 | 12 |
| 15 | 3110001014194 | 14 | 30 | 60 | 9 | 32 |
| 16 | 3120011176328 | 10 | 30 | 60 | 2 | 6 |
| 17 | 3439001321331 | 14 | 15 | 60 | 2 | 7 |
| 18 | 3439002528352 | 5 | 15 | 60 | 7 | 20 |
| 19 | 3740006414719 | 5 | 15 | 60 | 0 | 0 |
| 20 | 3805011783177 | 7 | 30 | 60 | 0 | 0 |
| 21 | 3805013644471 | 5 | 30 | 60 | 0 | 0 |
| 22 | 3895002526896 | 5 | 15 | 60 | 0 | 0 |
| 23 | 4010001293221 | 30 | 30 | 60 | 4 | 17 |
| 24 | 4010005852108 | 6 | 30 | 60 | 1 | 4 |
| 25 | 4010011096832 | 17 | 30 | 60 | 1 | 4 |
| 26 | 4030000019952 | 15 | 30 | 60 | 1 | 5 |
| 27 | 4030009487315 | 15 | 30 | 60 | 1 | 3 |
| 28 | 4030010446040 | 4 | 30 | 60 | 0 | 0 |
| 29 | 4030011420456 | 7 | 15 | 60 | 1 | 3 |
| 30 | 4110009247845 | 157 | 30 | 60 | 1 | 8 |
| 31 | 4130001539266 | 5 | 30 | 60 | 0 | 0 |
| 32 | 4130001938488 | 7 | 30 | 60 | 1 | 4 |
| 33 | 4130009510806 | 24 | 30 | 60 | 1 | 5 |
| 34 | 4320009224933 | 94 | 30 | 60 | 5 | 29 |
| 35 | 4320010981703 | 14 | 30 | 60 | 0 | 2 |
| 36 | 4330011310279 | 14 | 30 | 60 | 3 | 11 |
| 37 | 4330011643433 | 16 | 30 | 60 | 4 | 14 |
| 38 | 4330011903579 | 33 | 15 | 60 | 15 | 55 |
| 39 | 4710002000284 | 11 | 30 | 60 | 1 | 3 |
| 40 | 4710006099779 | 5 | 30 | 60 | 0 | 0 |
| 41 | 4710007409477 | 5 | 30 | 60 | 0 | 0 |
| 42 | 4710010053330 | 46 | 30 | 60 | 2 | 8 |
| 43 | 4710011883516 | 7 | 30 | 60 | 0 | 1 |
| 44 | 4710011888780 | 9 | 30 | 60 | 1 | 4 |
| 45 | 4710013229315 | 5 | 30 | 60 | 0 | 0 |
| 46 | 4720001776157 | 8 | 30 | 60 | 0 | 0 |
| 47 | 4720002039658 | 5 | 30 | 60 | 0 | 0 |
| 48 | 4720004613796 | 16 | 30 | 60 | 1 | 4 |
| 49 | 4720007059542 | 10 | 30 | 60 | 0 | 0 |
| 50 | 4720009641433 | 33 | 30 | 60 | 1 | 5 |
| 51 | 4720009770316 | 11 | 30 | 60 | 1 | 3 |
| 52 | 4720010673891 | 40 | 30 | 60 | 1 | 5 |

# APPENDIX C - CONSUMABLE RO EQUATION

| | | | | | | |
|---|---|---|---|---|---|---|
| 53 | 4720010889650 | 8 | 30 | 60 | 1 | 4 |
| 54 | 4720011233812 | 5 | 30 | 60 | 0 | 0 |
| 55 | 4720011560549 | 5 | 15 | 60 | 0 | 0 |
| 56 | 4720011797614 | 5 | 15 | 60 | 2 | 6 |
| 57 | 4720011816796 | 7 | 30 | 60 | 1 | 4 |
| 58 | 4720011929602 | 2 | 30 | 60 | 0 | 0 |
| 59 | 4720012122604 | 6 | 30 | 60 | 1 | 4 |
| 60 | 4720013252278 | 6 | 30 | 60 | 0 | 0 |
| 61 | 4730001188546 | 12 | 30 | 60 | 1 | 3 |
| 62 | 4730002028469 | 9 | 15 | 60 | 0 | 0 |
| 63 | 4730002660538 | 8 | 15 | 60 | 3 | 9 |
| 64 | 4730003962962 | 4 | 30 | 60 | 0 | 0 |
| 65 | 4730004926040 | 14 | 15 | 60 | 16 | 48 |
| 66 | 4730005416584 | 9 | 15 | 60 | 5 | 13 |
| 67 | 4730006047953 | 7 | 30 | 60 | 3 | 9 |
| 68 | 4730007205002 | 1 | 15 | 60 | 0 | 0 |
| 69 | 4730008137811 | 3 | 30 | 60 | 0 | 0 |
| 70 | 4730010057253 | 5 | 30 | 60 | 0 | 0 |
| 71 | 4730010707680 | 5 | 30 | 60 | 0 | 0 |
| 72 | 4730010836059 | 4 | 30 | 60 | 0 | 0 |
| 73 | 4730010900258 | 8 | 30 | 60 | 5 | 16 |
| 74 | 4730010996474 | 5 | 30 | 60 | 1 | 4 |
| 75 | 4730011173837 | 27 | 30 | 60 | 5 | 20 |
| 76 | 4730011196895 | 9 | 30 | 60 | 1 | 4 |
| 77 | 4730011340854 | 6 | 30 | 60 | 2 | 6 |
| 78 | 4730011549942 | 4 | 30 | 60 | 3 | 10 |
| 79 | 4820011589223 | 6 | 15 | 60 | 1 | 3 |
| 80 | 4930004707354 | 8 | 30 | 60 | 0 | 0 |
| 81 | 5305000213620 | 10 | 15 | 60 | 2 | 6 |
| 82 | 5305000425567 | 18 | 30 | 60 | 6 | 20 |
| 83 | 5305000593664 | 5 | 15 | 60 | 3 | 8 |

RO = Requisitioning Objective
RR = Repair Rate
RCT = Repair Cycle Time
OST=Order Ship Time
SL=Safety Level
OL=Operating Level
AMRD=Average Monthtly Recurring

# APPENDIX C - AMRD DATA

| ITEM NO | MONTHTLY DEMAND FOR EACH NSN | APR 96 | MAY 96 | JUN 96 | JUL 96 | AUG 96 | SEP 96 | OCT 96 | NOV 96 | DEC 96 | JAN 97 | FEB 97 | MAR 97 | APR 97 | MAY 97 | JUN 97 | JUL 97 | AUG 97 | SEP 97 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2510007368622 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 2520011272624 | 0 | 0 | 14 | 0 | 6 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 2520011374843 | 5 | 0 | 4 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 2530003401405 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 2530011271677 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 2540010627132 | 0 | 0 | 0 | 0 | 12 | 0 | 12 | 0 | 0 | 94 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 2540011026863 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 2540011860969 | 0 | 0 | 0 | 180 | 0 | 208 | 8 | 0 | 80 | 292 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 2590011689871 | 4 | 20 | 35 | 0 | 10 | 0 | 0 | 0 | 0 | 75 | 0 | 30 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 2590011905604 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | 2590012505009 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | 2940005370946 | 8 | 0 | 212 | 60 | 156 | 0 | 0 | 234 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | 3040010362989 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | 3040012545288 | 0 | 0 | 2 | 0 | 2 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15 | 3110001014194 | 0 | 0 | 20 | 12 | 28 | 0 | 0 | 0 | 18 | 36 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | 3120011176328 | 0 | 0 | 0 | 0 | 4 | 10 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | 3439001321331 | 90 | 0 | 10 | 10 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 | 3439002528352 | 0 | 0 | 0 | 20 | 10 | 0 | 0 | 0 | 0 | 66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | 3740006414719 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | 3805011783177 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 | 3805013644471 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | 3895002526896 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | 4010001293221 | 0 | 0 | 0 | 8 | 6 | 2 | 12 | 0 | 0 | 14 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 | 4010005852108 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 | 4010011096832 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 4030000019952 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | 4030009487315 | 0 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | 4030010446040 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | 4030011420456 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 | 4110009247845 | 0 | 6 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 31 | 4130001539266 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32 | 4130001938488 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 33 | 4130009510806 | 0 | 0 | 6 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34 | 4320009224933 | 0 | 0 | 6 | 4 | 68 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35 | 4320010981703 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 36 | 4330011310279 | 2 | 0 | 8 | 2 | 16 | 2 | 0 | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 37 | 4330011643433 | 0 | 22 | 15 | 50 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 38 | 4330011903579 | 728 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 | 4710002000284 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 40 | 4710006099779 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41 | 4710007409477 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42 | 4710010053330 | 0 | 2 | 0 | 0 | 15 | 0 | 0 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 43 | 4710011883516 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44 | 4710011888780 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45 | 4710013229315 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 46 | 4720001776157 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 47 | 4720002039658 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 48 | 4720004613796 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 49 | 4720007059542 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50 | 4720009641433 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 51 | 4720009770316 | 0 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 52 | 4720010673891 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 53 | 4720010889650 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54 | 4720011233812 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55 | 4720011560549 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 56 | 4720011797614 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 |
| 57 | 4720011816796 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 58 | 4720011929602 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 59 | 4720012122604 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 60 | 4720013252278 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61 | 4730001188546 | 0 | 0 | 6 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62 | 4730002028469 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 63 | 4730002660538 | 0 | 0 | 8 | 0 | 9 | 0 | 9 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 64 | 4730003962962 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65 | 4730004926040 | 4 | 0 | 40 | 0 | 24 | 60 | 0 | 68 | 0 | 28 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66 | 4730005416584 | 0 | 0 | 26 | 0 | 9 | 0 | 0 | 11 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67 | 4730006047953 | 0 | 0 | 0 | 5 | 3 | 0 | 8 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 68 | 4730007205002 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69 | 4730008137811 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70 | 4730010057253 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71 | 4730010707680 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72 | 4730010836059 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 73 | 4730010900258 | 0 | 0 | 0 | 0 | 0 | 24 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| 74 | 4730010996474 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75 | 4730011173837 | 0 | 0 | 14 | 0 | 12 | 0 | 0 | 12 | 8 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 |
| 76 | 4730011196895 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 4 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 77 | 4730011340854 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 78 | 4730011549942 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 0 | 6 | 7 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 79 | 4820011589223 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 4 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 80 | 4930004707354 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 81 | 5305000213620 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 82 | 5305000425567 | 0 | 0 | 17 | 0 | 15 | 0 | 0 | 21 | 25 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 83 | 5305000593664 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

# APPENDIX C - AMRD DATA

| ITEM NO | 12-MONTH AVG DEMAND FOR EACH NSN | MAR 97 | APR 97 | MAY 97 | JUN 97 | JUL 97 | AUG 97 | SEP 97 |
|---|---|---|---|---|---|---|---|---|
| 1 | 2510007368622 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 2 | 2520011272624 | 2 | 2 | 2 | 1 | 1 | 1 | 1 |
| 3 | 2520011374843 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 4 | 2530003401405 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 2530011271677 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 2540010627132 | 12 | 12 | 12 | 12 | 12 | 11 | 11 |
| 7 | 2540011026863 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 8 | 2540011860969 | 64 | 64 | 64 | 64 | 49 | 49 | 32 |
| 9 | 2590011689871 | 15 | 14 | 13 | 10 | 10 | 9 | 9 |
| 10 | 2590011905604 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 11 | 2590012505009 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| 12 | 2940005370946 | 58 | 57 | 57 | 39 | 34 | 21 | 21 |
| 13 | 3040010362989 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | 3040012545288 | 4 | 4 | 4 | 3 | 3 | 3 | 0 |
| 15 | 3110001014194 | 11 | 11 | 11 | 10 | 9 | 6 | 6 |
| 16 | 3120011176328 | 2 | 2 | 2 | 2 | 2 | 1 | 0 |
| 17 | 3439001321331 | 10 | 2 | 2 | 1 | 1 | 1 | 1 |
| 18 | 3439002528352 | 8 | 8 | 8 | 8 | 6 | 6 | 6 |
| 19 | 3740006414719 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | 3805011783177 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 | 3805013644471 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | 3895002526896 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | 4010001293221 | 5 | 5 | 5 | 5 | 4 | 3 | 3 |
| 24 | 4010005852108 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 25 | 4010011096832 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 26 | 4030000019952 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| 27 | 4030009487315 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| 28 | 4030010446040 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | 4030011420456 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 30 | 4110009247845 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| 31 | 4130001539266 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32 | 4130001938488 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 33 | 4130009510806 | 2 | 2 | 2 | 1 | 1 | 0 | 0 |
| 34 | 4320009224933 | 7 | 7 | 7 | 6 | 6 | 0 | 0 |
| 35 | 4320010981703 | 1 | 1 | 1 | 0 | 0 | 0 | 0 |
| 36 | 4330011310279 | 4 | 4 | 4 | 3 | 3 | 2 | 1 |
| 37 | 4330011643433 | 8 | 8 | 6 | 5 | 0 | 0 | 0 |
| 38 | 4330011903579 | 67 | 6 | 6 | 6 | 6 | 6 | 6 |
| 39 | 4710002000284 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| 40 | 4710006099779 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 41 | 4710007409477 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 42 | 4710010053330 | 2 | 2 | 2 | 2 | 2 | 1 | 1 |
| 43 | 4710011883516 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44 | 4710011888780 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 45 | 4710013229315 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 46 | 4720001776157 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 47 | 4720002039658 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 48 | 4720004613796 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 49 | 4720007059542 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50 | 4720009641433 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 51 | 4720009770316 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| 52 | 4720010673891 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 53 | 4720010889650 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 54 | 4720011233812 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55 | 4720011560549 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 56 | 4720011797614 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 57 | 4720011816796 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 58 | 4720011929602 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 59 | 4720012122604 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 60 | 4720013252278 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61 | 4730001188546 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| 62 | 4730002028469 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 63 | 4730002660538 | 4 | 4 | 4 | 3 | 3 | 2 | 2 |
| 64 | 4730003962962 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 65 | 4730004926040 | 19 | 19 | 19 | 15 | 15 | 13 | 8 |
| 66 | 4730005416584 | 6 | 6 | 6 | 4 | 4 | 3 | 3 |
| 67 | 4730006047953 | 3 | 3 | 3 | 3 | 2 | 2 | 2 |
| 68 | 4730007205002 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69 | 4730008137811 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70 | 4730010057253 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71 | 4730010707680 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72 | 4730010836059 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 73 | 4730010900258 | 5 | 5 | 5 | 5 | 5 | 5 | 3 |

110

# APPENDIX C - AMRD DATA

| | | | | | | | | |
|----|---------------|---|---|---|---|---|---|---|
| 74 | 4730010996474 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 75 | 4730011173837 | 6 | 6 | 6 | 5 | 5 | 4 | 4 |
| 76 | 4730011196895 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 77 | 4730011340854 | 2 | 2 | 2 | 2 | 2 | 1 | 1 |
| 78 | 4730011549942 | 3 | 3 | 3 | 3 | 3 | 3 | 2 |
| 79 | 4820011589223 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 80 | 4930004707354 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 81 | 5305000213620 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 82 | 5305000425567 | 7 | 7 | 7 | 5 | 5 | 4 | 4 |
| 83 | 5305000593664 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |

# APPENDIX C - OST DATA

| ITEM NO | NSN | SMU QTY | SMU ORDER | SMU RECPT | CUST TRANSIT | GROUND SMU OST | PREMIUM SMU OST |
|---|---|---|---|---|---|---|---|
| 1 | 2510007368622 | 8 | 6169 | 6193 | 11 | 24 | 14 |
| 2 | 2520011272624 | 7 | 6169 | 6180 | 5 | 11 | 7 |
| | | 7 | 6169 | 6180 | 9 | 11 | 3 |
| | | 3 | 6263 | 6276 | 7 | 13 | 7 |
| | | 3 | 6263 | 6276 | 7 | 13 | 7 |
| | | 4 | 7029 | 7044 | 8 | 15 | 8 |
| | | 4 | 7029 | 7044 | 6 | 15 | 10 |
| 3 | 2520011374843 | 5 | 6117 | 6131 | 5 | 14 | 10 |
| | | 4 | 6169 | 6180 | 5 | 11 | 7 |
| | | 3 | 6263 | 6276 | 5 | 13 | 9 |
| 4 | 2530003401405 | 0 | N/A | N/A | N/A | N/A | N/A |
| 5 | 2530011271677 | 0 | N/A | N/A | N/A | N/A | N/A |
| 6 | 2540010627132 | 2 | 6233 | 6250 | 14 | 17 | 4 |
| | | 2 | 6233 | 6250 | 13 | 17 | 5 |
| | | 2 | 6233 | 6250 | 13 | 17 | 5 |
| | | 2 | 6233 | 6250 | 3 | 17 | 15 |
| | | 2 | 6233 | 6250 | 5 | 17 | 13 |
| | | 2 | 6233 | 6250 | 10 | 17 | 8 |
| | | 2 | 6305 | 6319 | 10 | 14 | 5 |
| | | 2 | 6305 | 6319 | 6 | 14 | 9 |
| | | 2 | 6305 | 6319 | 11 | 14 | 4 |
| | | 2 | 6305 | 6319 | 6 | 14 | 9 |
| | | 2 | 6305 | 6319 | 8 | 14 | 7 |
| | | 2 | 6305 | 6319 | 7 | 14 | 8 |
| | | 14 | 7029 | 7044 | 10 | 15 | 6 |
| | | 14 | 7029 | 7044 | 6 | 15 | 10 |
| | | 14 | 7029 | 7044 | 13 | 15 | 3 |
| | | 14 | 7029 | 7044 | 13 | 15 | 3 |
| | | 14 | 7029 | 7044 | 14 | 15 | 2 |
| | | 14 | 7029 | 7044 | 7 | 15 | 9 |
| | | 5 | 7070 | 7076 | 4 | 6 | 3 |
| | | 5 | 7070 | 7076 | 4 | 6 | 3 |
| | | 5 | 7070 | 7076 | 3 | 6 | 4 |
| | | 5 | 7070 | 7076 | 3 | 6 | 4 |
| | | 5 | 7070 | 7076 | 3 | 6 | 4 |
| | | 5 | 7070 | 7076 | 3 | 6 | 4 |
| 7 | 2540011026863 | 5 | 6135 | 6156 | 15 | 21 | 7 |
| | | 2 | 6339 | 6365 | 15 | 26 | 12 |
| | | 2 | 7029 | 7044 | 8 | 15 | 8 |
| 8 | 2540011860969 | 45 | 6204 | 6215 | 8 | 11 | 4 |
| | | 45 | 6204 | 6215 | 1 | 11 | 11 |
| | | 45 | 6204 | 6215 | 5 | 11 | 7 |
| | | 45 | 6204 | 6215 | 8 | 11 | 4 |
| | | 50 | 6265 | 6276 | 8 | 11 | 4 |
| | | 50 | 6265 | 6276 | 8 | 11 | 4 |
| | | 50 | 6265 | 6276 | 3 | 11 | 9 |
| | | 50 | 6265 | 6276 | 8 | 11 | 4 |
| | | 4 | 6270 | 6291 | 11 | 21 | 11 |
| | | 4 | 6270 | 6291 | 10 | 21 | 12 |
| | | 4 | 6270 | 6291 | 11 | 21 | 11 |
| | | 4 | 6270 | 6291 | 11 | 21 | 11 |
| | | 2 | 6274 | 6292 | 7 | 18 | 12 |
| | | 2 | 6274 | 6292 | 7 | 18 | 12 |
| | | 2 | 6274 | 6292 | 7 | 18 | 12 |
| | | 2 | 6274 | 6292 | 6 | 18 | 13 |
| | | 10 | 6339 | 6365 | 8 | 26 | 19 |
| | | 10 | 6339 | 6365 | 3 | 26 | 24 |
| | | 10 | 6339 | 6365 | 19 | 26 | 8 |
| | | 10 | 6339 | 6365 | 11 | 26 | 16 |
| | | 10 | 6347 | 7041 | 10 | 59 | 50 |
| | | 10 | 6347 | 7041 | 11 | 59 | 49 |
| | | 10 | 6347 | 7041 | 11 | 59 | 49 |
| | | 10 | 6347 | 7041 | 10 | 59 | 50 |
| | | 73 | 7023 | 7030 | 5 | 7 | 3 |
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| | | 1 | 6103 | 6128 | 8 | 25 | 18 |
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| | | 7 | 7029 | 7034 | 4 | 5 | 2 |
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| | | 36 | 6171 | 6239 | 9 | 68 | 60 |
| | | 36 | 6171 | 6239 | 12 | 68 | 57 |
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113

| | | | | | | | |
|---|---|---|---|---|---|---|---|
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| 19 | 3740006414719 | 0 | N/A | N/A | N/A | N/A | N/A |
| 20 | 3805011783177 | 2 | 6233 | 6255 | 16 | 22 | 7 |
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| 22 | 3895002526896 | 0 | N/A | N/A | N/A | N/A | N/A |
| 23 | 4010001293221 | 4 | 6204 | 6221 | 14 | 17 | 4 |
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| | | 7 | 7007 | 7023 | 11 | 16 | 6 |
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| 25 | 4010011096832 | 5 | 7029 | 7050 | 3 | 21 | 19 |
| | | 5 | 7029 | 7050 | 7 | 21 | 15 |
| 26 | 4030000019952 | 2 | 6121 | 6158 | 9 | 37 | 29 |
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| | | 2 | 6121 | 6158 | 5 | 37 | 33 |
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| | | 1 | 6228 | 6256 | 9 | 28 | 20 |
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| 27 | 4030009487315 | 7 | 6135 | 6156 | 2 | 21 | 20 |
| | | 7 | 6135 | 6156 | 5 | 21 | 17 |
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| | | 2 | 7039 | 7051 | 9 | 12 | 4 |
| 29 | 4030011420456 | 3 | 6326 | 6340 | 5 | 14 | 10 |
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| 30 | 4110009247845 | 6 | 6121 | 6267 | 7 | 146 | 140 |
| | | 6 | 6270 | 7084 | 7 | 179 | 173 |
| 31 | 4130001539266 | 5 | 6326 | 6341 | 11 | 15 | 5 |
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| | | 4 | 6339 | 6358 | 10 | 19 | 10 |
| 33 | 4130009510806 | 6 | 6169 | 6184 | 3 | 15 | 13 |
| | | 4 | 6194 | 6267 | 14 | 73 | 60 |
| | | 4 | 6228 | 6241 | 3 | 13 | 11 |
| | | 4 | 6270 | 6291 | 13 | 21 | 9 |
| 34 | 4320009224933 | 2 | 6171 | 6276 | 4 | 105 | 102 |
| | | 2 | 6171 | 6276 | 3 | 105 | 103 |
| | | 1 | 6179 | 6268 | 3 | 89 | 87 |
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114

|    |                |     |       |       |      |      |      |
|----|----------------|-----|-------|-------|------|------|------|
|    |                | 17  | 6241  | 6268  | 4    | 27   | 24   |
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| 35 | 4320010981703  | 3   | 6169  | 6180  | 7    | 11   | 5    |
|    |                | 4   | 6178  | 6194  | 5    | 16   | 12   |
| 36 | 4330011310279  | 2   | 6103  | 6121  | 9    | 18   | 10   |
|    |                | 8   | 6169  | 6193  | 9    | 24   | 16   |
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|    |                | 14  | 6228  | 6241  | 12   | 13   | 2    |
|    |                | 2   | 6242  | 6256  | 9    | 14   | 6    |
|    |                | 2   | 6265  | 6282  | 12   | 17   | 6    |
|    |                | 17  | 7007  | 7052  | 9    | 45   | 37   |
| 37 | 4330011643433  | 22  | 6134  | 6152  | 13   | 18   | 6    |
|    |                | 6   | 6171  | 6190  | 16   | 19   | 4    |
|    |                | 9   | 6178  | 6197  | 8    | 19   | 12   |
|    |                | 25  | 6208  | 6226  | 8    | 18   | 11   |
|    |                | 25  | 6208  | 6271  | 15   | 63   | 49   |
|    |                | 4   | 6242  | 6255  | 4    | 13   | 10   |
| 38 | 4330011903579  | 104 | 6103  | 6194  | 10   | 91   | 82   |
|    |                | 104 | 6103  | 6194  | 57   | 91   | 35   |
|    |                | 104 | 6103  | 6194  | 5    | 91   | 87   |
|    |                | 104 | 6103  | 6194  | 38   | 91   | 54   |
|    |                | 104 | 6103  | 6194  | 23   | 91   | 69   |
|    |                | 104 | 6103  | 6194  | 5    | 91   | 87   |
|    |                | 104 | 6103  | 6194  | 65   | 91   | 27   |
|    |                | 10  | 7056  | 7070  | 8    | 14   | 7    |
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|    |                | 10  | 7056  | 7070  | 13   | 14   | 2    |
|    |                | 10  | 7056  | 7070  | 5    | 14   | 10   |
|    |                | 10  | 7056  | 7070  | 13   | 14   | 2    |
|    |                | 10  | 7056  | 7070  | 13   | 14   | 2    |
|    |                | 10  | 7056  | 7070  | 8    | 14   | 7    |
| 39 | 4710002000284  | 1   | 6121  | 6158  | 16   | 37   | 22   |
|    |                | 1   | 6228  | 6241  | 9    | 13   | 5    |
|    |                | 1   | 6263  | 6277  | 6    | 14   | 9    |
|    |                | 5   | 6339  | 7008  | 26   | 34   | 9    |
| 40 | 4710006099779  | 0   | N/A   | N/A   | N/A  | N/A  | N/A  |
|    |                | 3   | 6326  | 6341  | 11   | 15   | 5    |
|    |                | 2   | 6339  | 6353  | 11   | 14   | 4    |
| 41 | 4710007409477  | 0   | N/A   | N/A   | N/A  | N/A  | N/A  |
|    |                | 0   | N/A   | N/A   | N/A  | N/A  | N/A  |
| 42 | 4710010053330  | 2   | 6135  | 6256  | 10   | 121  | 112  |
|    |                | 15  | 6222  | 6249  | 7    | 27   | 21   |
|    |                | 1   | 6305  | 6319  | 9    | 14   | 6    |
|    |                | 5   | 6339  | 7029  | 7    | 55   | 49   |
| 43 | 4710011883516  | 5   | 6117  | 6134  | 7    | 17   | 11   |
|    |                | 5   | 7029  | 7044  | 13   | 15   | 3    |
| 44 | 4710011888780  | 3   | 6326  | 6344  | 14   | 18   | 5    |
|    |                | 3   | 6326  | 6344  | 9    | 18   | 10   |
|    |                | 2   | 6339  | 6353  | 5    | 14   | 10   |
|    |                | 2   | 6339  | 6353  | 5    | 14   | 10   |
| 45 | 4710013229315  | 0   | N/A   | N/A   | N/A  | N/A  | N/A  |
| 46 | 4720001776157  | 5   | 6046  | 6058  | 5    | 12   | 8    |
| 47 | 4720002039658  | 0   | N/A   | N/A   | N/A  | N/A  | N/A  |
| 48 | 4720004613796  | 1   | 6142  | 6162  | 9    | 20   | 12   |
|    |                | 10  | 7007  | 7034  | 8    | 27   | 20   |
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| 49 | 4720007059542  | 17  | 7051  | 7069  | 9    | 18   | 10   |
| 50 | 4720009641433  | 3   | 6305  | 6406  | 9    | 101  | 93   |
|    |                | 2   | 7051  | 7059  | 7    | 8    | 2    |
|    |                | 2   | 7064  | 7085  | 9    | 21   | 13   |
| 51 | 4720009770316  | 1   | 6121  | 6152  | 24   | 31   | 8    |
|    |                | 1   | 6169  | 6183  | 12   | 14   | 3    |
|    |                | 1   | 6228  | 6256  | 10   | 28   | 19   |
|    |                | 1   | 6291  | 6310  | 7    | 19   | 13   |
|    |                | 4   | 6339  | 6354  | 6    | 15   | 10   |
| 52 | 4720010673891  | 2   | 6339  | 7087  | 5    | 113  | 109  |
|    |                | 2   | 6339  | 7087  | 8    | 113  | 106  |
|    |                | 2   | 6339  | 7087  | 7    | 113  | 107  |
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|    |                | 1   | 7051  | 7058  | 6    | 7    | 2    |
|    |                | 1   | 7051  | 7058  | 5    | 7    | 3    |
|    |                | 1   | 7072  | 7085  | 6    | 13   | 8    |
|    |                | 1   | 7072  | 7085  | 9    | 13   | 5    |
|    |                | 1   | 7072  | 7085  | 5    | 13   | 9    |
| 53 | 4720010889650  | 3   | 6326  | 6341  | 7    | 15   | 9    |
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|    |                | 2   | 6339  | 7003  | 23   | 29   | 7    |
|    |                | 2   | 6339  | 7003  | 13   | 29   | 17   |
|    |                | 2   | 7029  | 7044  | 12   | 15   | 4    |
|    |                | 2   | 7029  | 7044  | 7    | 15   | 9    |
| 54 | 4720011233812  | 0   | N/A   | N/A   | N/A  | N/A  | N/A  |
| 55 | 4720011560549  | 0   | N/A   | N/A   | N/A  | N/A  | N/A  |
| 56 | 4720011797614  | 7   | 6339  | 6351  | 8    | 12   | 5    |
|    |                | 7   | 6339  | 6351  | 3    | 12   | 10   |
|    |                | 6   | 7072  | 7078  | 3    | 6    | 4    |

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| | | 6 | 7072 | 7075 | 2 | 3 | 2 |
| 57 | 4720011816796 | 3 | 6326 | 6341 | 11 | 15 | 5 |
| | | 2 | 6339 | 6353 | 10 | 14 | 5 |
| | | 5 | 7007 | 7023 | 6 | 16 | 11 |
| 58 | 4720011929602 | 5 | 7029 | 7044 | 14 | 15 | 2 |
| 59 | 4720012122604 | 2 | 7051 | 7065 | 8 | 14 | 7 |
| | | 2 | 7051 | 7065 | 10 | 14 | 5 |
| | | 2 | 7051 | 7065 | 10 | 14 | 5 |
| | | 2 | 7051 | 7065 | 8 | 14 | 7 |
| 60 | 4720013252278 | 0 | N/A | N/A | N/A | N/A | N/A |
| | | 0 | N/A | N/A | N/A | N/A | N/A |
| 61 | 4730001188546 | 6 | 6169 | 6185 | 5 | 16 | 12 |
| | | 4 | 6264 | 6278 | 7 | 14 | 8 |
| | | 2 | 7064 | 7086 | 7 | 22 | 16 |
| 62 | 4730002028469 | 3 | 6326 | 6341 | 8 | 15 | 8 |
| | | 2 | 6339 | 6353 | 5 | 14 | 10 |
| 63 | 4730002660538 | 8 | 6169 | 6180 | 7 | 11 | 5 |
| | | 9 | 6234 | 6250 | 7 | 16 | 10 |
| | | 9 | 6291 | 6303 | 6 | 12 | 7 |
| | | 17 | 6339 | 6354 | 5 | 15 | 11 |
| 64 | 4730003962962 | 3 | 6297 | 6311 | 11 | 14 | 4 |
| 65 | 4730004926040 | 1 | 6103 | 6162 | 8 | 59 | 52 |
| | | 1 | 6103 | 6162 | 3 | 59 | 57 |
| | | 1 | 6103 | 6162 | 9 | 59 | 51 |
| | | 1 | 6103 | 6162 | 4 | 59 | 56 |
| | | 8 | 6169 | 6180 | 6 | 11 | 6 |
| | | 8 | 6169 | 6180 | 6 | 11 | 6 |
| | | 8 | 6169 | 6180 | 6 | 11 | 6 |
| | | 8 | 6169 | 6180 | 6 | 11 | 6 |
| | | 1 | 6171 | 6185 | 12 | 14 | 3 |
| | | 1 | 6171 | 6185 | 11 | 14 | 4 |
| | | 1 | 6171 | 6185 | 13 | 14 | 2 |
| | | 1 | 6171 | 6185 | 5 | 14 | 10 |
| | | 1 | 6179 | 6197 | 13 | 18 | 6 |
| | | 1 | 6179 | 6197 | 13 | 18 | 6 |
| | | 1 | 6179 | 6197 | 7 | 18 | 12 |
| | | 1 | 6179 | 6197 | 6 | 18 | 13 |
| | | 6 | 6242 | 6255 | 4 | 13 | 10 |
| | | 6 | 6242 | 6255 | 4 | 13 | 10 |
| | | 6 | 6242 | 6255 | 6 | 13 | 8 |
| | | 6 | 6242 | 6255 | 6 | 13 | 8 |
| | | 14 | 6264 | 6276 | 6 | 12 | 7 |
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| | | 16 | 6305 | 6319 | 4 | 14 | 11 |
| | | 16 | 6305 | 6319 | 4 | 14 | 11 |
| | | 1 | 6313 | 7007 | 17 | 59 | 43 |
| | | 1 | 6313 | 7007 | 13 | 59 | 47 |
| | | 1 | 6313 | 7007 | 13 | 59 | 47 |
| | | 1 | 6313 | 7007 | 11 | 59 | 49 |
| | | 7 | 7023 | 7037 | 11 | 14 | 4 |
| | | 7 | 7023 | 7037 | 7 | 14 | 8 |
| | | 7 | 7023 | 7037 | 7 | 14 | 8 |
| | | 7 | 7023 | 7037 | 6 | 14 | 9 |
| | | 1 | 7039 | 7055 | 6 | 16 | 11 |
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| | | 1 | 7039 | 7055 | 11 | 16 | 6 |
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| 66 | 4730005416584 | 8 | 5341 | 5362 | 4 | 21 | 18 |
| | | 2 | 6159 | 6173 | 4 | 14 | 11 |
| | | 24 | 6169 | 6180 | 10 | 11 | 2 |
| | | 9 | 6228 | 6241 | 9 | 13 | 5 |
| | | 11 | 6305 | 6319 | 7 | 14 | 8 |
| | | 25 | 7024 | 7038 | 4 | 14 | 11 |
| 67 | 4730006047953 | 5 | 6204 | 6226 | 20 | 22 | 3 |
| | | 3 | 6228 | 6242 | 7 | 14 | 8 |
| | | 8 | 6291 | 6310 | 11 | 19 | 9 |
| | | 15 | 6339 | 6354 | 9 | 15 | 7 |
| 68 | 4730007205002 | 4 | 7029 | 7050 | 21 | 21 | 1 |
| 69 | 4730008137811 | 3 | 6326 | 6341 | 12 | 15 | 4 |
| | | 2 | 6339 | 6351 | 11 | 12 | 2 |
| 70 | 4730010057253 | 0 | N/A | N/A | N/A | N/A | N/A |
| 71 | 4730010707680 | 0 | N/A | N/A | N/A | N/A | N/A |
| 72 | 4730010836059 | 3 | 6326 | 6340 | 14 | 14 | 1 |
| | | 2 | 6339 | 6351 | 7 | 12 | 6 |
| 73 | 4730010900258 | 24 | 6264 | 6276 | 3 | 12 | 10 |
| | | 15 | 6274 | 6295 | 11 | 21 | 11 |
| | | 15 | 6291 | 6310 | 16 | 19 | 4 |
| 74 | 4730010996474 | 3 | 6326 | 6347 | 17 | 21 | 5 |

# APPENDIX C - OST DATA

|  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|
|  |  | 2 | 6339 | 6354 | 9 | 15 | 7 |
|  |  | 5 | 7029 | 7051 | 20 | 22 | 3 |
| 75 | 4730011173837 | 27 | 5308 | 5436 | 25 | 128 | 104 |
|  |  | 14 | 6169 | 6190 | 18 | 21 | 4 |
|  |  | 12 | 6228 | 6318 | 24 | 90 | 67 |
|  |  | 12 | 6305 | 6313 | 6 | 8 | 3 |
|  |  | 8 | 6339 | 7006 | 16 | 32 | 17 |
|  |  | 40 | 6339 | 7006 | 29 | 32 | 4 |
|  |  | 22 | 7064 | 7086 | 20 | 22 | 3 |
| 76 | 4730011196895 | 3 | 6326 | 6341 | 9 | 15 | 7 |
|  |  | 3 | 6326 | 6341 | 11 | 15 | 5 |
|  |  | 2 | 6339 | 6351 | 10 | 12 | 3 |
|  |  | 2 | 6339 | 6351 | 8 | 12 | 5 |
|  |  | 3 | 7064 | 7087 | 8 | 23 | 16 |
|  |  | 3 | 7064 | 7087 | 7 | 23 | 17 |
| 77 | 4730011340854 | 12 | 6228 | 6241 | 7 | 13 | 7 |
|  |  | 10 | 6339 | 6351 | 9 | 12 | 4 |
| 78 | 4730011549942 | 13 | 6253 | 6264 | 8 | 11 | 4 |
|  |  | 6 | 6339 | 6351 | 8 | 12 | 5 |
|  |  | 7 | 7029 | 7044 | 13 | 15 | 3 |
|  |  | 15 | 7058 | 7078 | 15 | 20 | 6 |
| 79 | 4820011589223 | 5 | 6326 | 6341 | 5 | 15 | 11 |
|  |  | 4 | 6339 | 6353 | 11 | 14 | 4 |
|  |  | 7 | 7051 | 7063 | 10 | 12 | 3 |
| 80 | 4930004707354 | 3 | 6326 | 6339 | 3 | 13 | 11 |
|  |  | 2 | 6339 | 6353 | 10 | 14 | 5 |
| 81 | 5305000213620 | 5 | 6305 | 6319 | 10 | 14 | 5 |
|  |  | 13 | 7051 | 7065 | 1 | 14 | 14 |
| 82 | 5305000425567 | 17 | 6169 | 6185 | 9 | 16 | 8 |
|  |  | 15 | 6228 | 6320 | 9 | 92 | 84 |
|  |  | 21 | 6305 | 6318 | 11 | 13 | 3 |
|  |  | 25 | 6339 | 6353 | 11 | 14 | 4 |
|  |  | 2 | 7056 | 7069 | 12 | 13 | 2 |
|  |  | 21 | 7072 | 7078 | 3 | 6 | 4 |
| 83 | 5305000593664 | 23 | 6326 | 6341 | 11 | 15 | 5 |
|  |  | 15 | 6339 | 6353 | 10 | 14 | 5 |

# APPENDIX C - INVENTORY SAVINGS

| | | COST OF INVENTORY | | | | | MONTHLY INCREMENTAL INVENTORY SAVINGS | | | | | MONTHLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ITEM NO | NSN | GROUND RO | PREMIUM RO | DECREASE IN RO | U / P | T/P | INV | OBSOL | OTHER | STOR | | INVENTORY HOLDING SAVINGS |
| 1 | 2510007368622 | 2 | 2 | 0 | 3.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 2 | 2520011272624 | 6 | 5 | 1 | 17.41 | 17.41 | 0.15 | 0.02 | 0.13 | 0.01 | = | 0.31 |
| 3 | 2520011374843 | 2 | 2 | 0 | 3.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 4 | 2530003401405 | 0 | 0 | 0 | 0.42 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 5 | 2530011271677 | 0 | 0 | 0 | 117.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 6 | 2540010627132 | 40 | 39 | 1 | 1.95 | 1.95 | 0.02 | 0.00 | 0.01 | 0.00 | = | 0.03 |
| 7 | 2540011026863 | 2 | 2 | 0 | 13.53 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 8 | 2540011860969 | 181 | 162 | 19 | 207.92 | 3950.48 | 32.92 | 4.61 | 29.76 | 3.29 | = | 70.58 |
| 9 | 2590011689871 | 41 | 38 | 3 | 20.64 | 61.92 | 0.52 | 0.07 | 0.47 | 0.05 | = | 1.11 |
| 10 | 2590011905604 | 4 | 4 | 0 | 1199.67 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 11 | 2590012505009 | 1 | 1 | 0 | 18.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 12 | 2940005370946 | 130 | 123 | 7 | 1.60 | 11.20 | 0.09 | 0.01 | 0.08 | 0.01 | = | 0.20 |
| 13 | 3040010362989 | 0 | 0 | 0 | 18.32 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 14 | 3040012545288 | 12 | 12 | 0 | 253.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 15 | 3110001014194 | 34 | 32 | 2 | 42.72 | 85.44 | 0.71 | 0.10 | 0.64 | 0.07 | = | 1.53 |
| 16 | 3120011176328 | 6 | 6 | 0 | 11.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 17 | 3439001321331 | 8 | 7 | 1 | 6.70 | 6.70 | 0.06 | 0.01 | 0.05 | 0.01 | = | 0.12 |
| 18 | 3439002528352 | 22 | 20 | 2 | 2.73 | 5.46 | 0.05 | 0.01 | 0.04 | 0.00 | = | 0.10 |
| 19 | 3740006414719 | 0 | 0 | 0 | 136.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 20 | 3805011783177 | 0 | 0 | 0 | 82.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 21 | 3805013644471 | 0 | 0 | 0 | 142.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 22 | 3895002526896 | 0 | 0 | 0 | 862.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 23 | 4010001293221 | 18 | 17 | 1 | 8.83 | 8.83 | 0.07 | 0.01 | 0.07 | 0.01 | = | 0.16 |
| 24 | 4010005852108 | 4 | 4 | 0 | 13.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 25 | 4010011096832 | 4 | 4 | 0 | 4.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 26 | 4030000019952 | 5 | 5 | 0 | 5.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 27 | 4030009487315 | 3 | 3 | 0 | 0.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 28 | 4030010446040 | 0 | 0 | 0 | 7.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 29 | 4030011420456 | 3 | 3 | 0 | 0.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 30 | 4110009247845 | 8 | 8 | 0 | 0.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 31 | 4130001539266 | 0 | 0 | 0 | 220.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 32 | 4130001938488 | 4 | 4 | 0 | 28.63 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 33 | 4130009510806 | 5 | 5 | 0 | 8.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 34 | 4320009224933 | 30 | 29 | 1 | 21.70 | 21.70 | 0.18 | 0.03 | 0.16 | 0.02 | = | 0.39 |
| 35 | 4320010981703 | 2 | 2 | 0 | 11.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 36 | 4330011310279 | 12 | 11 | 1 | 5.19 | 5.19 | 0.04 | 0.01 | 0.04 | 0.00 | = | 0.09 |
| 37 | 4330011643433 | 15 | 14 | 1 | 20.34 | 20.34 | 0.17 | 0.02 | 0.15 | 0.02 | = | 0.36 |
| 38 | 4330011903579 | 66 | 55 | 11 | 7.38 | 81.18 | 0.68 | 0.09 | 0.61 | 0.07 | = | 1.45 |
| 39 | 4710002000284 | 4 | 3 | 1 | 0.85 | 0.85 | 0.01 | 0.00 | 0.01 | 0.00 | = | 0.02 |
| 40 | 4710006099779 | 0 | 0 | 0 | 22.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 41 | 4710007409477 | 0 | 0 | 0 | 10.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 42 | 4710010053330 | 9 | 8 | 1 | 35.78 | 35.78 | 0.30 | 0.04 | 0.27 | 0.03 | = | 0.64 |
| 43 | 4710011883516 | 1 | 1 | 0 | 8.92 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 44 | 4710011888780 | 4 | 4 | 0 | 5.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 45 | 4710013229315 | 0 | 0 | 0 | 35.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 46 | 4720001776157 | 0 | 0 | 0 | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 47 | 4720002039658 | 0 | 0 | 0 | 10.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 48 | 4720004613796 | 4 | 4 | 0 | 364.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 49 | 4720007059542 | 0 | 0 | 0 | 289.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 50 | 4720009641433 | 5 | 5 | 0 | 26.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 51 | 4720009770316 | 3 | 3 | 0 | 4.96 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 52 | 4720010673891 | 5 | 5 | 0 | 116.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 53 | 4720010889650 | 4 | 4 | 0 | 7.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 54 | 4720011233812 | 0 | 0 | 0 | 6.93 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 55 | 4720011560549 | 0 | 0 | 0 | 1.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 56 | 4720011797614 | 6 | 6 | 0 | 26.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 57 | 4720011816796 | 4 | 4 | 0 | 19.45 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |

118

## APPENDIX C - INVENTORY SAVINGS

| 58 | 4720011929602 | 0 | 0 | 0 | 24.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
|----|---------------|----|----|---|-------|-------|------|------|------|------|---|------|
| 59 | 4720012122604 | 4 | 4 | 0 | 3.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 60 | 4720013252278 | 0 | 0 | 0 | 59.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 61 | 4730001188546 | 4 | 3 | 1 | 3.92 | 3.92 | 0.03 | 0.00 | 0.03 | 0.00 | = | 0.07 |
| 62 | 4730002028469 | 0 | 0 | 0 | 3.16 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 63 | 4730002660538 | 10 | 9 | 1 | 0.34 | 0.34 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.01 |
| 64 | 4730003962962 | 0 | 0 | 0 | 4.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 65 | 4730004926040 | 52 | 48 | 4 | 2.37 | 9.48 | 0.08 | 0.01 | 0.07 | 0.01 | = | 0.17 |
| 66 | 4730005416584 | 14 | 13 | 1 | 0.18 | 0.18 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 67 | 4730006047953 | 10 | 9 | 1 | 0.53 | 0.53 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.01 |
| 68 | 4730007205002 | 0 | 0 | 0 | 6.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 69 | 4730008137811 | 0 | 0 | 0 | 2.71 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 70 | 4730010057253 | 0 | 0 | 0 | 0.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 71 | 4730010707680 | 0 | 0 | 0 | 2.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 72 | 4730010836059 | 0 | 0 | 0 | 11.68 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 73 | 4730010900258 | 17 | 16 | 1 | 0.46 | 0.46 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.01 |
| 74 | 4730010996474 | 4 | 4 | 0 | 4.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 75 | 4730011173837 | 24 | 20 | 4 | 0.76 | 3.04 | 0.03 | 0.00 | 0.02 | 0.00 | = | 0.05 |
| 76 | 4730011196895 | 4 | 4 | 0 | 3.36 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 77 | 4730011340854 | 6 | 6 | 0 | 1.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 78 | 4730011549942 | 11 | 10 | 1 | 9.46 | 9.46 | 0.08 | 0.01 | 0.07 | 0.01 | = | 0.17 |
| 79 | 4820011589223 | 3 | 3 | 0 | 16.52 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 80 | 4930004707354 | 0 | 0 | 0 | 91.35 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 81 | 5305000213620 | 6 | 6 | 0 | 0.09 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.00 |
| 82 | 5305000425567 | 22 | 20 | 2 | 0.19 | 0.38 | 0.00 | 0.00 | 0.00 | 0.00 | = | 0.01 |
| 83 | 5305000593664 | 9 | 8 | 1 | 14.88 | 14.88 | 0.12 | 0.02 | 0.11 | 0.01 | = | 0.27 |

77.85

# APPENDIX C - TRANSPORTATION COSTS

**MONTHLY TRANSPORTATION REQUIREMENT**                                                         **MONTHLY INCREMENTAL TRANSPORTATION COST**

| ITEM NO | NSN | UNIT WEIGHT (LBS) | AMRD | BI-MONTHLY WT | BI-MONTHTLY CUBE | TRACY PREMIUM RATE | TRACY PREMIUM COST | | MECH GROUND RATE | MECH GROUND COST | | DLA MONTHLY TRANSPORTATION SAVINGS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2510007368622 | 0.08 | 0 | 0 | 0.0030 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 2 | 2520011272624 | 0.20 | 1 | 0 | 0.0175 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 3 | 2520011374843 | 1.37 | 0 | 0 | 0.0040 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 4 | 2530003401405 | 0.02 | 0 | 0 | 0.0005 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 5 | 2530011271677 | 0.01 | 0 | 0 | 0.0001 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 6 | 2540010627132 | 0.01 | 12 | 0 | 0.0006 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 7 | 2540011026863 | 0.20 | 0 | 0 | 0.0052 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 8 | 2540011860969 | 3.00 | 54 | 81 | 0.0545 | 0.00 | 0.00 | - | 18.63 | 37.26 | = | 37.26 |
| 9 | 2590011689871 | 0.06 | 11 | 0 | 0.1320 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 10 | 2590011905604 | 4.50 | 1 | 2 | 0.0480 | 0.00 | 0.00 | - | 0.46 | 0.92 | = | 0.92 |
| 11 | 2590012505009 | 0.02 | 0 | 0 | 0.0025 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 12 | 2940005370946 | 0.10 | 41 | 2 | 0.0030 | 0.00 | 0.00 | - | 0.46 | 0.92 | = | 0.92 |
| 13 | 3040010362989 | 0.00 | 0 | 0 | 0.0000 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 14 | 3040012545288 | 0.00 | 3 | 0 | 0.0000 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 15 | 3110001014194 | 8.00 | 9 | 36 | 0.0330 | 0.00 | 0.00 | - | 8.28 | 16.56 | = | 16.56 |
| 16 | 3120011176328 | 0.06 | 2 | 0 | 0.0010 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 17 | 3439001321331 | 0.55 | 2 | 1 | 0.0040 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 18 | 3439002528352 | 1.01 | 7 | 4 | 0.0000 | 0.00 | 0.00 | - | 0.69 | 1.38 | = | 1.38 |
| 19 | 3740006414719 | 11.00 | 0 | 0 | 0.6945 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 20 | 3805011783177 | 100.00 | 0 | 0 | 0.6140 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 21 | 3805013644471 | 2.40 | 0 | 0 | 0.1620 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 22 | 3895002526896 | 45.00 | 0 | 0 | 12.2222 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 23 | 4010001293221 | 5.68 | 4 | 12 | 0.0625 | 0.00 | 0.00 | - | 2.53 | 5.06 | = | 5.06 |
| 24 | 4010005852108 | 0.10 | 1 | 0 | 0.0012 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 25 | 4010011096832 | 1.75 | 1 | 1 | 0.1000 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 26 | 4030000019952 | 0.22 | 1 | 0 | 0.0006 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 27 | 4030009487315 | 0.01 | 1 | 0 | 0.0005 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 28 | 4030010446040 | 0.10 | 0 | 0 | 0.0035 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 29 | 4030011420456 | 0.10 | 1 | 0 | 0.0005 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 30 | 4110009247845 | 0.05 | 1 | 0 | 0.0030 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 31 | 4130001539266 | 0.03 | 0 | 0 | 0.0000 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 32 | 4130001938488 | 0.20 | 1 | 0 | 0.0125 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 33 | 4130009510806 | 2.00 | 1 | 1 | 0.0055 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 34 | 4320009224933 | 0.25 | 5 | 1 | 0.0070 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 35 | 4320010981703 | 0.13 | 0 | 0 | 0.0070 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 36 | 4330011310279 | 1.00 | 3 | 2 | 0.0350 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 37 | 4330011643433 | 2.40 | 4 | 5 | 0.0650 | 0.00 | 0.00 | - | 0.92 | 1.84 | = | 1.84 |
| 38 | 4330011903579 | 0.43 | 15 | 3 | 0.0047 | 0.00 | 0.00 | - | 0.69 | 1.38 | = | 1.38 |
| 39 | 4710002000284 | 1.00 | 1 | 0 | 0.0030 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 40 | 4710006099779 | 0.50 | 0 | 0 | 0.1405 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 41 | 4710007409477 | 1.49 | 0 | 0 | 0.3747 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 42 | 4710010053330 | 0.50 | 2 | 0 | 0.0000 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 43 | 4710011883516 | 0.24 | 0 | 0 | 0.0799 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 44 | 4710011888780 | 1.49 | 1 | 1 | 0.2747 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 45 | 4710013229315 | 8.76 | 0 | 0 | 0.6852 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 46 | 4720001776157 | 1.02 | 0 | 0 | 0.0556 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 47 | 4720002039658 | 0.25 | 0 | 0 | 0.0050 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 48 | 4720004613796 | 54.00 | 1 | 27 | 1.2500 | 0.00 | 0.00 | - | 6.21 | 12.42 | = | 12.42 |
| 49 | 4720007059542 | 1.00 | 0 | 0 | 0.0040 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 50 | 4720009641433 | 31.00 | 1 | 16 | 1.5000 | 0.00 | 0.00 | - | 3.45 | 6.90 | = | 6.90 |
| 51 | 4720009770316 | 0.26 | 1 | 0 | 0.0130 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 52 | 4720010673891 | 0.00 | 1 | 0 | 0.0000 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 53 | 4720010889650 | 0.12 | 1 | 0 | 0.0625 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 54 | 4720011233812 | 0.63 | 0 | 0 | 0.0070 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 55 | 4720011560549 | 0.10 | 0 | 0 | 0.0015 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 56 | 4720011797614 | 0.05 | 2 | 0 | 0.0090 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 57 | 4720011816796 | 0.50 | 1 | 0 | 0.0155 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 58 | 4720011929602 | 0.00 | 0 | 0 | 0.0000 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 59 | 4720012122604 | 0.10 | 1 | 0 | 0.0290 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 60 | 4720013252278 | 0.01 | 0 | 0 | 0.0000 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 61 | 4730001188546 | 1.00 | 1 | 0 | 0.0010 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |

## APPENDIX C - TRANSPORTATION COSTS

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 62 | 4730002028469 | 0.30 | 0 | 0 | 0.0110 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 63 | 4730002660538 | 0.08 | 3 | 0 | 0.0050 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 64 | 4730003962962 | 0.01 | 0 | 0 | 0.0005 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 65 | 4730004926040 | 0.13 | 16 | 1 | 0.0006 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 66 | 4730005416584 | 0.10 | 5 | 0 | 0.0005 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 67 | 4730006047953 | 0.10 | 3 | 0 | 0.0045 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 68 | 4730007205002 | 0.54 | 0 | 0 | 0.0010 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 69 | 4730008137811 | 0.01 | 0 | 0 | 0.0005 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 70 | 4730010057253 | 0.01 | 0 | 0 | 0.0005 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 71 | 4730010707680 | 0.10 | 0 | 0 | 0.0005 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 72 | 4730010836059 | 0.00 | 0 | 0 | 0.0000 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 73 | 4730010900258 | 0.01 | 5 | 0 | 0.0005 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 74 | 4730010996474 | 0.15 | 1 | 0 | 0.0052 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 75 | 4730011173837 | 0.06 | 5 | 0 | 0.0045 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 76 | 4730011196895 | 0.30 | 1 | 0 | 0.0010 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 77 | 4730011340854 | 0.01 | 2 | 0 | 0.0005 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 78 | 4730011549942 | 0.50 | 3 | 1 | 0.0025 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 79 | 4820011589223 | 0.00 | 1 | 0 | 0.0000 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 80 | 4930004707354 | 0.01 | 0 | 0 | 0.0005 | 0.00 | 0.00 | - | 0.00 | 0.00 | = | 0.00 |
| 81 | 5305000213620 | 0.03 | 2 | 0 | 0.0005 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 82 | 5305000425567 | 0.01 | 6 | 0 | 0.0005 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| 83 | 5305000593664 | 0.01 | 3 | 0 | 0.0005 | 0.00 | 0.00 | - | 0.23 | 0.46 | = | 0.46 |
| | | | | 199 | 18.8617 | | | | | | | 105.80 |

121

# APPENDIX C - CONSUMABLE TRADEOFF

## MONTHLY INCREMENTAL INVENTORY / TRANSPORTATION TRADEOFF

| ITEM NO | NSN | I MEF MONTHLY INVENTORY HOLDING SAVINGS | | DLA MONTHLY TRANSPORTATION SAVINGS | | MONTHLY TOTAL SAVINGS |
|---|---|---|---|---|---|---|
| 1 | 2510007368622 | 0.00 | + | 0.46 | = | 0.46 |
| 2 | 2520011272624 | 0.31 | + | 0.46 | = | 0.77 |
| 3 | 2520011374843 | 0.00 | + | 0.46 | = | 0.46 |
| 4 | 2530003401405 | 0.00 | + | 0.00 | = | 0.00 |
| 5 | 2530011271677 | 0.00 | + | 0.00 | = | 0.00 |
| 6 | 2540010627132 | 0.03 | + | 0.46 | = | 0.49 |
| 7 | 2540011026863 | 0.00 | + | 0.46 | = | 0.46 |
| 8 | 2540011860969 | 70.58 | + | 37.26 | = | 107.84 |
| 9 | 2590011689871 | 1.11 | + | 0.46 | = | 1.57 |
| 10 | 2590011905604 | 0.00 | + | 0.92 | = | 0.92 |
| 11 | 2590012505009 | 0.00 | + | 0.46 | = | 0.46 |
| 12 | 2940005370946 | 0.20 | + | 0.92 | = | 1.12 |
| 13 | 3040010362989 | 0.00 | + | 0.00 | = | 0.00 |
| 14 | 3040012545288 | 0.00 | + | 0.46 | = | 0.46 |
| 15 | 3110001014194 | 1.53 | + | 16.56 | = | 18.09 |
| 16 | 3120011176328 | 0.00 | + | 0.46 | = | 0.46 |
| 17 | 3439001321331 | 0.12 | + | 0.46 | = | 0.58 |
| 18 | 3439002528352 | 0.10 | + | 1.38 | = | 1.48 |
| 19 | 3740006414719 | 0.00 | + | 0.00 | = | 0.00 |
| 20 | 3805011783177 | 0.00 | + | 0.00 | = | 0.00 |
| 21 | 3805013644471 | 0.00 | + | 0.00 | = | 0.00 |
| 22 | 3895002526896 | 0.00 | + | 0.00 | = | 0.00 |
| 23 | 4010001293221 | 0.16 | + | 5.06 | = | 5.22 |
| 24 | 4010005852108 | 0.00 | + | 0.46 | = | 0.46 |
| 25 | 4010011096832 | 0.00 | + | 0.46 | = | 0.46 |
| 26 | 4030000019952 | 0.00 | + | 0.46 | = | 0.46 |
| 27 | 4030009487315 | 0.00 | + | 0.46 | = | 0.46 |
| 28 | 4030010446040 | 0.00 | + | 0.00 | = | 0.00 |
| 29 | 4030011420456 | 0.00 | + | 0.46 | = | 0.46 |
| 30 | 4110009247845 | 0.00 | + | 0.46 | = | 0.46 |
| 31 | 4130001539266 | 0.00 | + | 0.00 | = | 0.00 |
| 32 | 4130001938488 | 0.00 | + | 0.46 | = | 0.46 |
| 33 | 4130009510806 | 0.00 | + | 0.46 | = | 0.46 |
| 34 | 4320009224933 | 0.39 | + | 0.46 | = | 0.85 |
| 35 | 4320010981703 | 0.00 | + | 0.46 | = | 0.46 |
| 36 | 4330011310279 | 0.09 | + | 0.46 | = | 0.55 |
| 37 | 4330011643433 | 0.36 | + | 1.84 | = | 2.20 |
| 38 | 4330011903579 | 1.45 | + | 1.38 | = | 2.83 |
| 39 | 4710002000284 | 0.02 | + | 0.46 | = | 0.48 |
| 40 | 4710006099779 | 0.00 | + | 0.00 | = | 0.00 |
| 41 | 4710007409477 | 0.00 | + | 0.00 | = | 0.00 |
| 42 | 4710010053330 | 0.64 | + | 0.46 | = | 1.10 |
| 43 | 4710011883516 | 0.00 | + | 0.46 | = | 0.46 |
| 44 | 4710011888780 | 0.00 | + | 0.46 | = | 0.46 |
| 45 | 4710013229315 | 0.00 | + | 0.00 | = | 0.00 |
| 46 | 4720001776157 | 0.00 | + | 0.00 | = | 0.00 |
| 47 | 4720002039658 | 0.00 | + | 0.00 | = | 0.00 |
| 48 | 4720004613796 | 0.00 | + | 12.42 | = | 12.42 |
| 49 | 4720007059542 | 0.00 | + | 0.00 | = | 0.00 |
| 50 | 4720009641433 | 0.00 | + | 6.90 | = | 6.90 |
| 51 | 4720009770316 | 0.00 | + | 0.46 | = | 0.46 |

# APPENDIX C - CONSUMABLE TRADEOFF

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 52 | 4720010673891 | 0.00 | + | 0.46 | = | 0.46 |
| 53 | 4720010889650 | 0.00 | + | 0.46 | = | 0.46 |
| 54 | 4720011233812 | 0.00 | + | 0.00 | = | 0.00 |
| 55 | 4720011560549 | 0.00 | + | 0.00 | = | 0.00 |
| 56 | 4720011797614 | 0.00 | + | 0.46 | = | 0.46 |
| 57 | 4720011816796 | 0.00 | + | 0.46 | = | 0.46 |
| 58 | 4720011929602 | 0.00 | + | 0.00 | = | 0.00 |
| 59 | 4720012122604 | 0.00 | + | 0.46 | = | 0.46 |
| 60 | 4720013252278 | 0.00 | + | 0.00 | = | 0.00 |
| 61 | 4730001188546 | 0.07 | + | 0.46 | = | 0.53 |
| 62 | 4730002028469 | 0.00 | + | 0.00 | = | 0.00 |
| 63 | 4730002660538 | 0.01 | + | 0.46 | = | 0.47 |
| 64 | 4730003962962 | 0.00 | + | 0.00 | = | 0.00 |
| 65 | 4730004926040 | 0.17 | + | 0.46 | = | 0.63 |
| 66 | 4730005416584 | 0.00 | + | 0.46 | = | 0.46 |
| 67 | 4730006047953 | 0.01 | + | 0.46 | = | 0.47 |
| 68 | 4730007205002 | 0.00 | + | 0.00 | = | 0.00 |
| 69 | 4730008137811 | 0.00 | + | 0.00 | = | 0.00 |
| 70 | 4730010057253 | 0.00 | + | 0.00 | = | 0.00 |
| 71 | 4730010707680 | 0.00 | + | 0.00 | = | 0.00 |
| 72 | 4730010836059 | 0.00 | + | 0.00 | = | 0.00 |
| 73 | 4730010900258 | 0.01 | + | 0.46 | = | 0.47 |
| 74 | 4730010996474 | 0.00 | + | 0.46 | = | 0.46 |
| 75 | 4730011173837 | 0.05 | + | 0.46 | = | 0.51 |
| 76 | 4730011196895 | 0.00 | + | 0.46 | = | 0.46 |
| 77 | 4730011340854 | 0.00 | + | 0.46 | = | 0.46 |
| 78 | 4730011549942 | 0.17 | + | 0.46 | = | 0.63 |
| 79 | 4820011589223 | 0.00 | + | 0.46 | = | 0.46 |
| 80 | 4930004707354 | 0.00 | + | 0.00 | = | 0.00 |
| 81 | 5305000213620 | 0.00 | + | 0.46 | = | 0.46 |
| 82 | 5305000425567 | 0.01 | + | 0.46 | = | 0.47 |
| 83 | 5305000593664 | 0.27 | + | 0.46 | = | 0.73 |

|  |  |  |
|---|---|---|
| 77.85 | + | 105.80 | = | 183.65 |

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